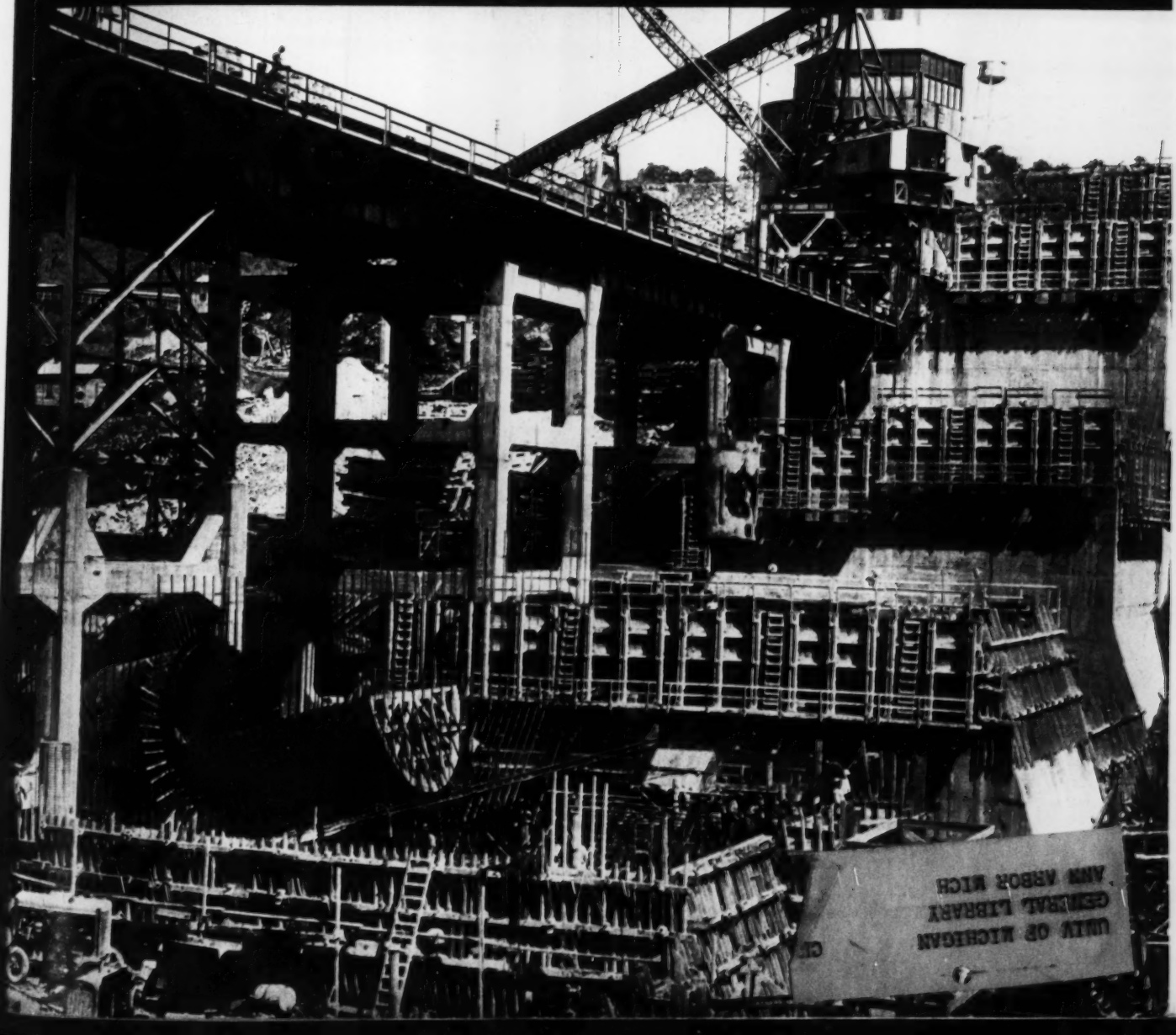
ENGINEERING NEWS-RECORD

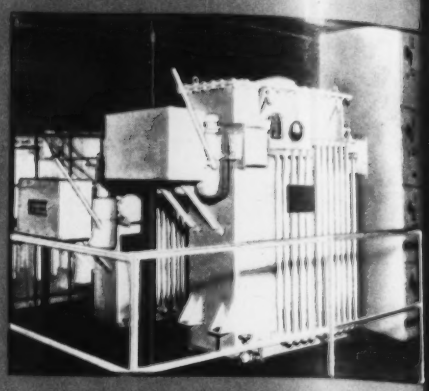
AUG

ded for new construction speed record, Douglas Dam rises on Tennessee's French Broad River



UNIV OF MICHIGAN
CENTRAL LIBRARY
ANN ARBOR MICH

IT TAKES *less than an hour* TO WRITE THE SPECIFICATIONS FOR STANDARD G-E UNIT SUBSTATIONS



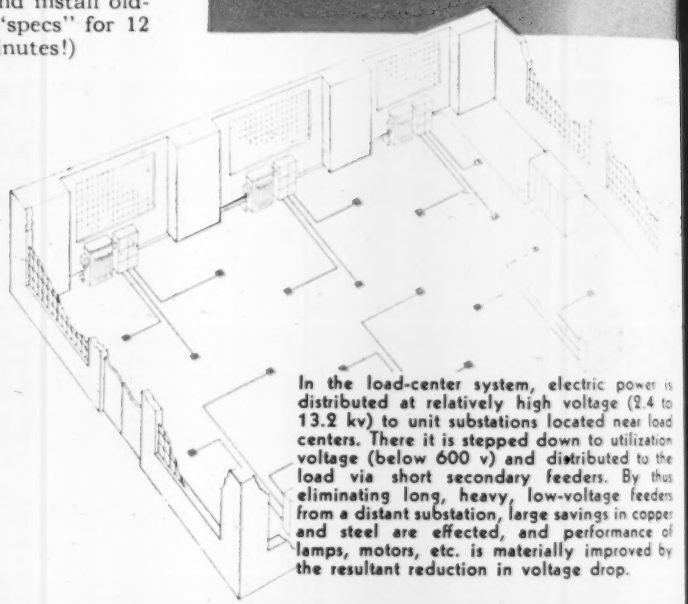
Load-center unit substations are quickly and easily installed—simply slide the completely assembled sections into position, bolt together, and connect the primary and secondary cables. Pyranol, being noninflammable, permits units to be installed right at load-centers without expensive vault construction.

LOAD-CENTER unit substations, for service in a *modern* load-center power distribution system, can be quickly and easily specified, ordered, and installed—permitting time savings of *one to six months* over the time required to design, obtain, and install old-style, "piecemeal" equipments. (In a recent case, the "specs" for 12 identical 2000-kva units were entirely written in 15 minutes!)

By specifying standard units, you avoid spending those weeks of time over the drawing board and in long, drawn-out correspondence. And standardization promotes efficient mass production to expedite deliveries still further while lowering the cost to you.

Purchasing a G-E unit substation is not much different from buying an automobile. In a recently completed plant, for example, the consulting engineer had used these compact, safety-metal-enclosed units and consequently was weeks ahead of schedule. After a sudden change in load conditions, he discovered he needed two more units to provide the necessary capacity. Referring to a G-E bulletin on his desk, he called the local G-E representative and ordered ". . . two more exactly like the unit in Fig. 12, page 22." That's all there was to it, and he received prompt delivery.

These completely factory-assembled unit substations consist of metal-clad primary gear, a Pyranol (noninflammable) transformer, and a low-voltage-feeder section with drawout air circuit breakers. They are designed for serving loads 600 volts and below from incoming lines up to 13.2 kv. They are quickly and easily installed near electrical load centers without expensive vault construction—and additional units can be installed WHEN and WHERE needed. Your local G-E representative will be glad to work with you on your particular application. General Electric, Schenectady, N. Y.



In the load-center system, electric power is distributed at relatively high voltage (2.4 to 13.2 kv) to unit substations located near load centers. There it is stepped down to utilization voltage (below 600 v) and distributed to the load via short secondary feeders. By thus eliminating long, heavy, low-voltage feeders from a distant substation, large savings in copper and steel are effected, and performance of lamps, motors, etc. is materially improved by the resultant reduction in voltage drop.

General Electric and its employees are proud of the Navy award of Excellence made to its Erie Works for the manufacture of naval ordnance.

General Electric Co., Sect. C 302-9
Schenectady, N. Y.

I understand your new handy guide to "Quickly Installed Electric Power Systems" (GED-1006) explains in detail the steps to follow in order to get power to new production machinery in one to six months less time.

Please send me a copy.

Name.....

Company.....

Address.....

City.....State.....

GENERAL ELECTRIC

Engineering Library

The Week In Engineering and Construction

ENGINEERING NEWS-RECORD • AUGUST 20, 1942 • VOLUME 129 • NUMBER 8

Formal regulations issued on contract renegotiation

Contractors' profits are to be scaled down to a level reflecting pre-war experience—Basic principles are few.

Renegotiation of war contracts to eliminate excessive profits (*ENR*, July 30, 1942, p. 141) will be a double-barreled process, issuance of formal regulations to guide Army Price Adjustment Boards indicated this week. Contracts of more than $100,000 awarded since April 28 carry, by Congressional mandate, a clause providing for scaling down of the payments to the contractor if actual costs run less than contemplated when the contract was awarded.

This will constitute one form of renegotiation, but it is not necessarily final. The Price Adjustment Boards are also authorized to look into the total profit position of a contractor in any fiscal year. If his profit on all war contracts appears to have been excessive, he will be ordered to make a refund to the government.

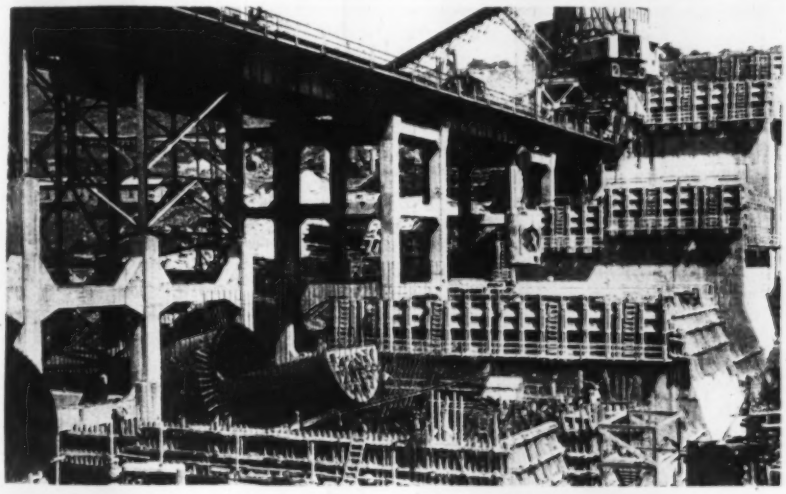
Responsibility for renegotiation of Army construction contracts rests with a Price Adjustment Section headed by Harry W. Loving. This section obtains its policy from the War Department's Price Adjustment Board, of which Maurice Karker is chairman. All Navy contracts are handled by a departmental board headed by Kenneth H. Rockey, while Thomas M. Woodward heads the Maritime Commission unit.

Powers of the Corps of Engineer section will probably be delegated to division and district offices.

Nowhere do the regulations lay down a definite rule as to what profit is excessive. This is to be determined separately in each case. But certain principles are established. For example, profit to be considered is profit before taxes. Also, ratio of profit to cost of the job rather than ratio to invested capital is the significant figure.

Generally, a contractor is entitled to about the same rate of profit he, and his industry, got in peacetime, somewhat reduced to reflect the absence of sales and promotional effort. The rate should decrease as the size of the job increases. The rate should reflect the greater risks of fixed-price contracts. It should take account of particularly good performance under the contract, as by greater speed, conservation of materials, or the like. Contractors doing difficult jobs are entitled to a higher rate. Contractors who sub-contract much of the work should receive a lower rate.

Meanwhile, there's a distinct possibility that the whole renegotiation program may be abandoned. Considerable sentiment is developing both in congress and in industry for repeal of the renegotiation law and substitution of a statutory profit limit or even reliance entirely on the excess-profits tax to eliminate excessive profits.



Douglas Dam rises in valley of French Broad River

Tennessee Valley Authority's engineers are confident that they will establish a new construction speed record in the construction of Douglas Dam, on the French Broad River in east Tennessee. Their schedule has been set at 12 months, from start to closure, for this 760-ft. long concrete gravity section dam, which will be 161 ft. high and impound floodwaters of the river for eventual production of electric power.

Engineers' hopes for a record apparently are well founded, as evidenced by this photograph. Beneath the steel construction trestle shown are two of the penstocks, 19 ft. in diameter, that will carry water to the turbines. Concrete pouring is well under way.

• • •

Price ceiling may be limited to private work

The Office of Price Administration is weakening on its original intention (*ENR*, July 9, 1942, p. 57) of issuing a price ceiling order governing all construction work. OPA is now exploring the possibilities of an order limited to non-governmental construction work, which, it feels, is more closely related to the cost of living.

Behind the shift is the fact that OPA's scheme to fix the price of all construction at cost of materials, plus wage rates as of July 1, plus a permitted percentage, ran into considerable opposition from other government agencies. The proposed ceiling could easily have conflicted with or overlapped the Department of Labor's

wage freeze program (*ENR*, May 28, 1942, p. 879). Many of the construction agencies feared that a ceiling would interfere with their contract-letting activities and argued that with all contracts subject to renegotiation (see p. 257) there is no need for OPA to intervene.

This shift in approach on OPA's part is expected to delay for some weeks and perhaps longer any definite action. Meanwhile, construction contractors, according to OPA, are theoretically covered by the General Maximum Price Regulation which freezes the price of all goods and services at the level of last March. In practice, OPA admits, it would be impossible for a contractor to conform to the regulation because there is no way for him to figure his ceiling price.

• • •

Million workers on war construction jobs

Last week Secretary of Labor Perkins reported that employment on war construction projects of the federal government reached one million persons, or nearly one-half of the employment in the construction industry, in June. The statement emphasizes that employment on war construction projects has increased nearly 45 percent in the past three months, and that an additional increase of 200,000 persons is anticipated before peak employment in the war construction program is reached in the third quarter of this year. Employment on such projects in June was more than double that of June last year.

While employment on war construction projects was reaching a new high, employment on non-war construction, declined during the first half of 1942, reflecting the effect of recent federal limitations on such projects to conserve materials for the war effort. Only 1,070,000 persons were employed on non-war projects in June of this year, as compared with 1,767,000 in June of last year. As a result of this decline in non-war construction, total construction employment in June, dropped to 2,070,000 or nearly 200,000 below the number employed in the same month of last year.

The peak in non-war construction employment since 1929 was reached in Sept. 1940, just as the war construction program was getting under way. Privately-financed residential building and industrial and utilities expansion in the defense areas maintained non-war construction employment at a high level throughout 1941. In the first half of 1942 employment on these types of work declined sharply. Further curtailment of non-war construction will cause a rapid decline in employment in the third and fourth quarters of 1942, states Secretary Perkins, and will reduce this year's employment on non-war projects to one-half of the annual level for the preceding two years.

Texas-Illinois pipeline begins to stretch out

The 550 mile, 24-in. oil pipeline between the Texas Panhandle and central Illinois (ENR, July 23, p. 124 and previous), is beginning to take shape as the nation rushes attempts to relieve a threatened serious oil shortage on the eastern seaboard. Shown above is a section of the line under construction by Williams Bros. Corp., of Tulsa, Okla., somewhere between Longview, Tex. and the Arkansas-Texas state line.

The pipe is being roll welded, preparatory to bell-hole tie-in welds.

Part of a $159,000,000 program to relieve the oil shortage, the new line is expected to be completed and in service by late December of this year.

Shortage of steel delays Santee River Bridge

There is a possibility that the new highway span across the Santee River on U. S. Route 15, between Sumpter, S. C. and Savannah, Ga., may not be finished until after the war, unless steel can be secured, according to C. R. McMillan, South Carolina highway engineer. Major contracts for this structure were let in August of last year, and work was started shortly thereafter. The majority of the concrete piers have already been constructed and the work is proceeding according to schedule on all work involved, with the exception of that requiring structural steel.

Erection of the span was undertaken as a result of construction of the Santee-Cooper hydro-electric project, which causes the river to rise sufficiently high at this point to make a higher bridge necessary. The old wooden bridge crossing has now reached a point where it is almost impossible to bolster the piling any further, according to McMillan, and this fact is creating an especially difficult problem, especially in view of the fact that it now looks as though the structural steel, necessary for completion of the new span, will not be forthcoming. The new project is one of the largest bridge structures ever to be undertaken in the State of South Carolina, and is estimated to cost $1,200,000.

Connecticut appoints housing study committee

Concerned over reports of congestion in housing facilities in Connecticut's industrial areas, Governor Robert A. Hurley last week appointed a nine-member emergency housing commission. The body will make a study of congested areas and determine if materials are available for the program of construction that it might recommend; and will attempt to devise a plan whereby native Connecticut materials can be more thoroughly utilized in the construction of additional properly constructed housing units. Results of the study will be presented to the Federal authorities.

George Stewart, of Stamford, a member of the Federal Public Housing Commission, has been appointed chairman of the new group. Other members are: William A. Scott, vice chairman of the Hartford Housing Authority; Edwin A. Brook, of Bridgeport, industrial representative of the CIO; Mrs. Dorothy Bartlett, of Putnam; Sanford H. Wadhams, chairman of the Connecticut State Water Commission; Wendell L. Cross, Waterbury manufacturer; George L. Burke, state public works commissioner; R. W. Pettit, New Haven Housing Authority member; and Dr. C. E. A. Winslow, of the School of Public Health, Yale University, and president of the National Association of Housing Officials.

ENGINEERING NEWS-RECORD, Published every Thursday. Vol. 129, No. 8. Price 25c per copy. Allow at least ten days for change of address. All communications about subscriptions should be addressed to the Director of Circulation, 330 West 42nd Street, New York, N. Y. Subscriptions, United States, U. S. Possessions and Latin American Republics $5.00 for one year, $8.00 for two years, $10.00 for three years. Canada $5.00 for one year, $9.00 for two years, $11.00 for three years. Great Britain and British possessions 54 shillings for one year, 108 shillings for three years. All other countries $9.00 for one year $18.00 for three years. Entered as second-class matter October 29, 1936, at the Post Office at Albany, N. Y., under the Act of March 3, 1879. Printed in U. S. A. Cable Address "McGrawhill New York." Member A.B.P. Member A. B. C. Copyright 1942 by McGraw-Hill Publishing Company, Inc. James H. McGraw, Founder and Honorary Chairman; James H. McGraw, Jr., President; Howard Ehrlich, Executive Vice-President; Mason Britton, Vice-President; B. R. Putnam, Treasurer; Joseph A. Gerardi, Secretary; J. E. Blackburn, Jr., Circulation Manager. Publication office: 99-129 North Broadway, Albany, N. Y. Editorial and Executive Offices: 330 West 42nd St., New York Branch offices: 520 N. Michigan Ave., Chicago; 68 Post St., San Francisco; Aldwych House, Aldwych, London, W.C. 2, England; Washington; Philadelphia; Cleveland; Detroit; St. Louis; Los Angeles; Boston; Atlanta, Ga.

Manpower Commission moving toward wartime control of engineering skill

In the field of civil engineering the problem is one of conversion; training men to do work in less crowded fields.

Last week's request from the War Manpower Commission that employers do their hiring of technical men through the facilities of the United States Employment Service and the National Roster of Scientific and Technical Personnel (*ENR*, Aug. 13, p. 72) was the first move in a program to ensure that the most efficient possible use is made of the nation's resources of technical skill. It's a program which will almost certainly amount, eventually, to compulsory allocation of technicians to the place they are most needed, the freezing of engineers in war industry and of faculties of engineering schools to their jobs.

Mustering of technical manpower is the responsibility of a special section of the War Manpower Commission, headed by Doctor Edward C. Elliott, president of Purdue University. Elliott has only a small staff, works mostly through the USES, the Roster, the U. S. Office of Education, and similar agencies.

Dr. Elliott has two quite distinct problems facing him. On the one hand, severe shortages exist in many branches of engineering. The problem here is to see that best use is made of what men there are and to prevent competitive raiding of industry and university staffs by other industries. Eventually, this problem will likely be met by telling men what job they are to do. This would become legally possible upon passage of the National Service Act which is now being drafted.

Meanwhile, much the same effect would be achieved by making compulsory the request that all hiring in war industries be done through USES, or at least be cleared through USES. Manpower Commissioner McNutt is now preparing to take action along this line as regards skilled workmen in critical areas.

The second problem arises in those branches of engineering where a surplus of men exists or is expected to in the future. Civil engineering and architecture is a prime example. In this case the job is one of conversion, of training men to do work in a field where there is a scarcity. Something along this line is already being done in the federally-financed short courses in engineering now being offered at most colleges.

These courses, at present, are primarily intended and used for increasing the skill of men already engaged in war industry. For the thoroughgoing conversion job, something more extensive will be needed. This is particularly the case since such "conversion" from one branch of engineering to another may likely involve a substantial drop in income.

One phase of the problem which has hardly been touched as yet, but which may have to be dealt with eventually, is the equalization of pay—particularly for sub-professional groups—in different industries. It will always be difficult to prevent raiding if there are wide discrepancies in pay and opportunities for substantially the same work. And even legislative job freezing would create a serious morale problem among men who were getting lower pay.

• • •

WPB announces results of road equipment survey

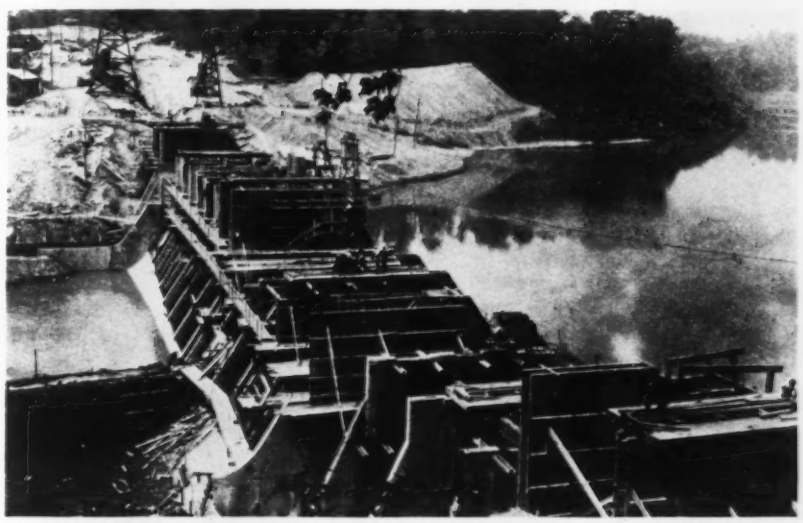
Figures showing the availability of mobile road construction equipment in the United States were released on Aug. 14, by the Bureau of Governmental Requirements of the War Production Board. Based on a questionnaire survey that has been under way since about the first of the year, the figures show the following road construction equipment owned by states, cities, counties, and towns:

Tractors, 16,693; motor graders, 16,773; pull-type graders, 16,005; scrapers and carrying scrapers, 4,958; maintainers, 3,250; angle and bulldozers, 1,382; snow plows, 25,347; and varying amounts of 27 other classes of equipment used in the construction and maintenance of roads.

State and local highway officials who desire to obtain the use of such equipment should write to the Bureau of Governmental Requirements, which seeks to put local governments in touch with other governmental units whose equipment may be loaned or rented.

According to the Bureau's conclusion from its survey, there is sufficient road construction equipment in the country for all subdivisions of governments for at least the next two years, provided that it is carefully maintained.

At the present time another division of WPB, the Construction Machinery Branch, is beginning a survey which will cover *all* used construction instead of just *road* machinery (*ENR*, Aug. 13, 1942, p. 201), and it is expected that some of the results will be available in the thirteen WPB regional offices in the very near future.



More water for suburban Washington

Water is being stored behind the incompleted Brighton Dam of the Washington Suburban Sanitary Commission to add to the existing supplies through the fall period of low stream-flow. The dam, on the Patuxent River near Laurel, Md., will store 6.5 billion gal. of water to serve the several communities outside Washington, D. C. that have combined into a Sanitary District.

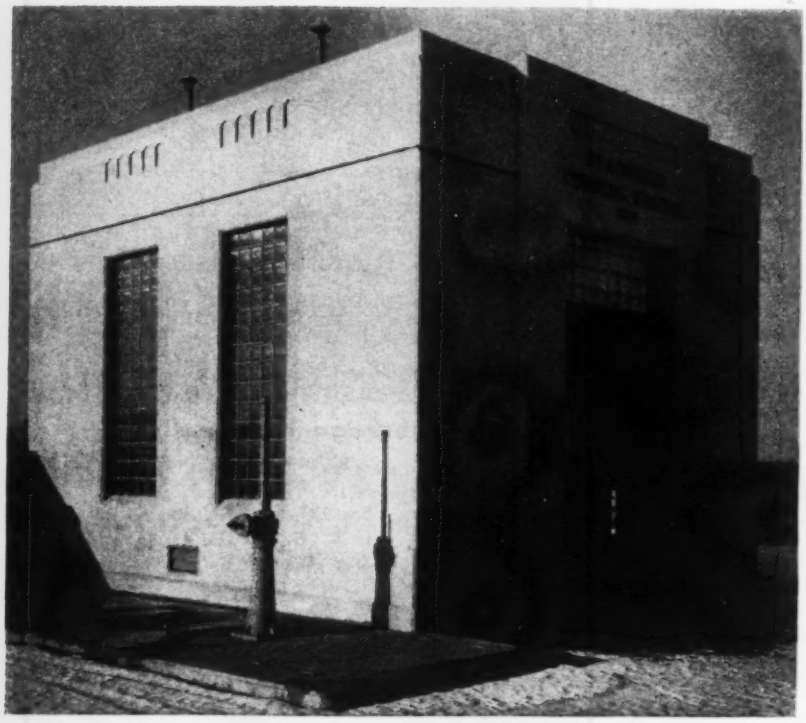
The dam is a deck and buttress type concrete structure 80 ft. high from rock to a roadway deck. The concrete structure is 600 ft. long with 13 radial gates 15 ft. high by 18 ft. long comprising the spillway. Flanking earth fills make the structure 995 ft. long overall.

Construction is serviced by two cableways of about 875-ft. span that handle the forms, imbedded equipment and the concrete. Mixers, set under a hillside plant on one abutment, supply the concrete.

The job is being built by forces of the Washington Suburban Sanitary District, of which Harry R. Hall is chief engineer. The Abursen Engineering Corporation designed the structure and are consultants on construction.

The design of this pumping station was dictated by its location in a high class residential section of West Springfield, Mass.

Pumping Stations Can Be Attractive



An excellent example of modern design as applied to architectural concrete.

In connection with the extensive flood-control program for the Connecticut River Valley, initial work on the project having been started the latter part of 1938 (*ENR*, July 17, 1941, p. 82), a number of pumping stations are necessary to evacuate the interior drainage during flood periods when the Connecticut River is too high to permit normal gravity flow. Three of the 20 reservoirs called for on the project have now been completed on tributaries of the Connecticut River and all earth levees and concrete flood walls have been practically completed. A total of 18 pumping plants has been built by the U.S. Engineer Department; these are in addition to 10 stations erected by the cities of Springfield, Mass., Hartford, Conn., and West Springfield, Mass., previous to the entry of the federal government into the flood-control program.

Pumping station design

Design of the four pumping plants here illustrated is typical of the majority of the 18 stations now completed. These examples show an excellent handling of a design problem, which usually is given but little thought.

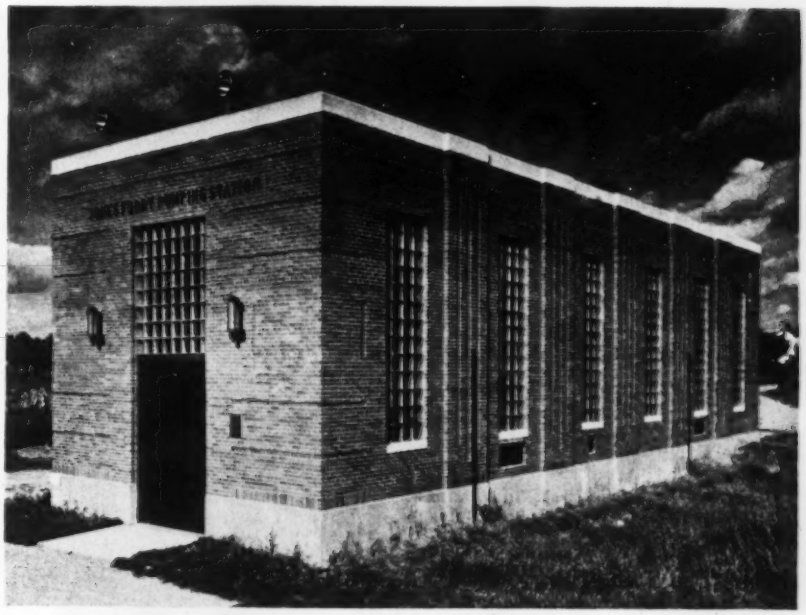
At West Springfield, Mass., the Warren Street plant is located in a high-

class residential area just across the street from the riverfront flood wall. The homes in this section follow the early colonial architecture of the Bay State and therefore the design developed for this structure has all the characteristics of the architecture of the period. Here, too, extreme care was used in eliminating from view the usual unsightly, but necessary utility appurtenances around pumping stations. So far as appearance is concerned, this might well be just another public building in the neighborhood. With exterior walls of red brick and a variegated green asbestos cement shingle roof, the structure is 42x24½ ft. inside and houses three 30-in. propeller-type pumps; cost was $131,000.

In direct contrast to the design of the West Springfield plant, the Plainfield station at Chicopee, Mass., depends for its interest on the simplicity of the composition. This $54,000 reinforced-concrete building is located in an industrial area and is in keeping with not only the architectural design of the surrounding structures but also with the treatment of the adjacent flood walls. The building is 22x18 ft., and provides space for two 16-in. volute pumps.

Located in a riverside area behind the earth levee, the Jones Ferry plant depends for its interest on a simple, straightforward handling of the design problem. Just enough decorative detail has been used to relieve what otherwise would have been a static rectangular composition. These details are found in the treatment of the pilasters along the side walls, in the fenestration, and in the glass block panel over the entrance. The building is 74x28 ft. with a reinforced concrete substructure and superstructure of brick with a steel frame, and cost $169,000. Space is provided for three 42-in. propeller-type pumps.

Similar in design to the Jones Ferry plant, the $122,000 Paderewski station at Chicopee, Mass., is located in a rural section of the city, and is built into the earth levee. Here, too, the designer chose to employ just enough decorative detail to relieve the monotony of unbroken wall space. This has been accomplished by the off-set entrance, perpendicular glass block windows, limestone trim, and brickwork pattern. The building is 22x51 ft. inside, and houses two 30-in. propeller-type and one 16-in. volute pumps.



Here the decorative details add interest to an otherwise static composition.

The perpendicular treatment of the windows and offset entrance has been skillfully used to accentuate the height.

Camouflage course offered at Pratt Institute

An announcement has been made by Pratt Institute, Brooklyn, N. Y., that an intensive professional course in industrial camouflage will be offered to architects, engineers, landscape architects, and other qualified professional people, for a five-week period, three evenings a week, beginning September 8.

The course is being conducted under the guidance of the Office of Civilian Defense, and under the auspices of the Department of Architecture of the Art School at Pratt. The subject matter is organized for the purpose of providing an urgently needed professional personnel to whom protective concealment problems may be referred. Information and criticism will be given which will qualify those taking the course to prepare plans in accordance with principles established by the OCD.

Further information may be secured by addressing the Art School, Department of Architecture, Pratt Institute, Brooklyn, N. Y.

• • •

FTC charges contractor with bidding frauds

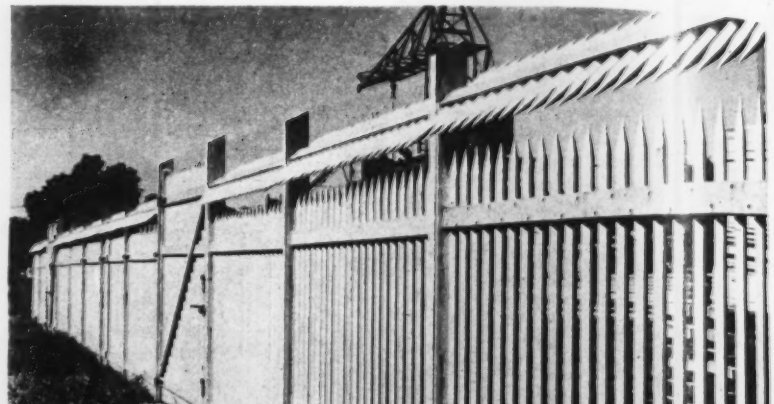
Complaints of collusion and fraudulent bidding have been issued by the Federal Trade Commission against suppliers of Charles F. Rohleder, construction contractor on rehabilitation of the Cramp Shipyards in Philadelphia.

Rohleder, according to the FTC complaint, took the construction contract from the Cramp Shipbuilding Co. on a cost-plus-a-fee basis with the understanding that he would purchase necessary materials and equipment on competitive bids. The work was financed by the Navy.

FTC alleges that supplying firms frequently with Rohleder's cooperation, submitted collusive and fraudulent bids, thus "maintaining a false appearance of competition."

Firms named in the complaints, along with Rohleder and numerous individuals named as agents of these firms are: Westinghouse Electric Supply Co., Grater-Body Co., J. P. Rainey & Co., J. R. Duffy Manufacturing Co., American Steel and Wire Co. of New Jersey, Walter H. Cave as agent of the New Jersey company and the Cyclone Fence Co., Adams-Crawford Co., Delta Equipment Co., S. S. Keely & Sons, A. Wilt & Sons Co., The O'Brien Machinery Co., Cattie Tool Co., Walker Brothers and Adelphia Electric Co.

The Federal Trade Commission, it is understood, will not push its case until the War Frauds Unit of the Department of Justice has had a chance to determine whether criminal action should be taken.



Wooden fence provides property protection

Among the many substitutes evolved by American ingenuity for less critical applications of metals is the wooden protection fence shown above.

Designed by the Product Development Laboratory of General Timber Service, Inc., for Weyerhaeuser Sales Co., the fence is designed for the protection of ordnance plants, airfields, shipyards and industrial properties. It is made of Douglas Fir in three heights—6, 7 and 8 ft.—and is shipped knocked down in carload quantities with all members accurately machined for easy assembly.

In each 10-ft. section, there are 21 pointed pickets—2 in. by 2 in. by 6 ft. held between two 2 in. by 4 in. rails at top and bottom. Rails are notched to one-half the thickness of the pickets so that the two faces of the rails meet. Ends of rails are supported in notches which are cut into a pair of mortised strips, or cleats, that are fastened to the wide sides of the posts.

This method of fabrication leaves the post intact and promotes economical, rapid erection. The 20-in. pickets on the guard rail are pointed at both ends and are set at a 45 deg. angle to prevent anyone from climbing over the fence.

Record-breaking rains replenish Norfolk water

Rainfall totalling 9.89 in. in a period of about 52 hours, which began on Aug. 11, gave the Norfolk, Va., area the worst drenching ever recorded, and helped to replenish the city's water supply. Shortage of water, which resulted in city ordinances forbidding lawn sprinkling and car washing, has been of primary concern for some time and work has been pushed on the construction of a 42 in. pipeline and other improvements to bring in auxiliary supplies from the Blackwater and Nottaway rivers.

The three day rainfall was almost twice as much as fell during the entire period from April through July, the combined total for these months being 5.57 in. Lake Prince, principal source of the Norfolk supply, was 12 ft. below normal on Aug. 11. Immediately following the rain it rose about two feet.

Total rainfall in the first 13 days of August was 12.37 in., a record-breaking performance.

Appoint new deputy commissioner for WPA

George H. Field has been appointed deputy commissioner of the Work Projects Administration. He has been Federal Works Agency regional director at Chicago, and now succeeds F. H. Dryden, who has been commissioned a colonel in the Corps of Engineers.

Field graduated as a civil engineer from the University of Wisconsin in 1925, was in private practice until 1933 and then became a project engineer for the Civil Works Administration. In 1939, he became WPA regional director for the Middle West, and last June FWA regional director.

• • •

Traffic model studies

PLASTIC models showing Atlanta, Ga., plans for post-war solution of traffic problems are being prepared by Raymond W. Torras, engineer-secretary of the City Planning Commission.

Local post-war public works planning put on the shelf for the duration

Lack of funds makes it necessary for National Resources Planning Board to curtail its relations with state and city agencies.

Federal stimulation of local planning of post-war state and local public works programs has been brought almost to a halt by lack of funds. Except for a half dozen or so consultants working out of the National Resources Planning Board office, creation of a reservoir of PWA-type projects is now entirely a local matter. The Local Public Works Programming Office created last April (*ENR*, April 9, p. 53) wound up its activities late last month and its field organization disbanded.

Active efforts to build up a reservoir of local projects began early this year with creation of the Public Works Reserve in the Federal Works Agency. This evolved, with some modifications into the programming office—a joint FWA-NRPB project. It was financed primarily with WPA funds, an operation that became impossible when the new WPA appropriation was deeply cut and restrictions were imposed on employment of non-relief personnel. It was then thought that the activity might be financed with Lanham Act (defense housing and public works) funds, but close examination of the act disclosed no pretext under which this could be done.

Actually, the war situation plus the restrictions on present building has led to a surprising amount of local activity in advance planning of public works. About fifty communities now have drafted six-year works plans, which could be translated into active projects if a post-war program of federal financing were initiated. These local plans go as far as to list projects, roughly estimate cost, and assign them to a particular year for initiation. Generally, it has not proved possible to get the staff required to carry out designs and put projects on a ready-to-go basis.

It seems unlikely, however, that such local activity can result in creation of a project reservoir on the scale contemplated by the President in his frequent remarks on the subject. If this proves to be the case, renewed pressure might arise behind the Wagner Post-War Planning Bill, defeated in Congress this spring.

• • •

Highway revenues drop 17-million in N. C.

Because of automobile, tire and gasoline rationing, highway revenues in North Carolina during the current fiscal year will total only $21,228,000 as compared with more than $39,000,000 during the past fiscal year, it has been predicted by James S. Burch, statistical engineer of the North Carolina Highway and Public Works Commission.

Mr. Burch predicts that by Jan. 1, 1943, highway traffic in the state will be 61.3 percent below the past year, and that another $10,000,000 decline in revenues may be expected for the fiscal years 1943-44 and 1944-45.

• • •

New York asks funds for post-war building plans

Mayor F. H. La Guardia of New York City has asked the city's Board of Estimate to authorize the expenditure of $10,955,780 for plans, sketches, preliminary studies and similar activities to cover about half of a $628,000,000 post-war construction program outlined in the capital budget for 1942 (*ENR*, May 28, p. 889 and previous).

The mayor proposed the establishment of a special post-war planning committee which would consider preliminary plans and would pass on final plans, transmitting them to the Board of Estimate for the approval of that body.

Under the grant of funds asked, architects, contractors and engineers will be employed to draw preliminary plans or make general or specific studies. The mayor declared that the city's present engineering and architectural forces cannot handle the job of getting plans for such a large program completed within the next 18 months, and recommended that contracts should be made with private engineers and architects for part of the planning job.

He added that he felt it was necessary that the plans be prepared as soon as possible to provide for an immediate start of work following cessation of hostilities.

As previously outlined, the post-war program calls for construction of 46 new school buildings; a new Harlem River drive; a new Raymond St. jail, in Brooklyn; a $19,000,000 lower Manhattan crosstown express highway, public housing projects costing a total of $91,000,000, and an $83,285,800 sewage disposal program.

Shand Dam on Grand River in Ontario dedicated

The Shand Dam, main control structure of the Grand River Conservation Commission in southwestern Ontario, was officially dedicated by Premier Hepburn, of Ontario, on Aug. 6. Located near Fergus, on the upstream section of the Grand River, the dam is designed to conserve the flow of water so that a minimum of 200 cfs will at all times be maintained. The structure is 2,100 ft. long, consisting of two earth-fill sections, rising to a maximum height of 75 ft., and joined by a concrete control section 150 ft. long, in which there are four steel control gates, discharge culverts, and control valves.

Started in 1939, the dam was practically complete in 1940, but final construction work was held up due to negotiations for relocating a railway over the crest of the dam. Estimated cost was $2,000,000, including the dam and associated work, and the project was completed at a cost of $1,900,000.

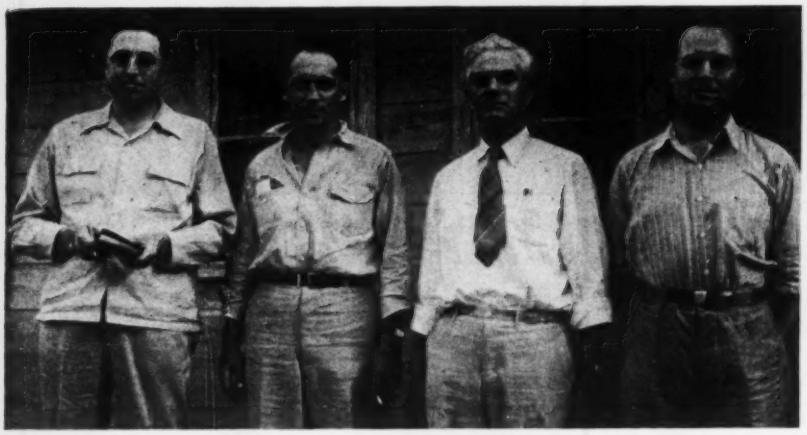
H. G. Acres, of Niagara Falls, was consulting engineer, and the Rayner Construction Co., Ltd., of Toronto, general contractor.

Those playing an important part on rapid construction of the Kentucky Ordnance Works at Paducah include the three above. They are, left to right: CAPT. COLLIER HALL, executive assistant; and LIEUT. COL. S. B. Wiggins, area engineer, for the Nashville District, U. S. Engineers, and J. M. KELLEY, project manager for Rust Engineering Co.

Two men who are doing a good job in speeding up the work of paving a Tennessee air field for the U. S. Engineering Department are: M. H. McCARTNEY (left), general superintendent, and D. B. JONES, plant superintendent, for Wesco Paving Co., sub-contractors for the paving project.

At Wolf Creek Dam under construction in southern Kentucky, J. I. BOWMAN (left) is resident engineer for the U. S. Engineers, WM. J. RATTIGAN (center), foundation engineer, and HARRY R. DOWNS, assistant resident engineer.

KENNETH S. CLEAVES, resident engineer for the U. S. Engineers at a Maine airport project, inspects a new type of pipe being employed for the drainage system. Mr. Cleaves is a graduate of University of Maine, class of 1934.



Rapid advancement on the construction of Dale Hollow Dam in Tennessee is the big goal of the four engineers above with Morrison-Knudsen Co., the general contractor. They are, left to right: O. M. STRANGE, engineer; G. A. GRIFFIN, general superintendent; M. G. KENNEDY, project manager; and E. W. GLASS, office manager.

Rapid construction is the long suit of the four engineers above, employed on a New England airbase. They are, left to right: T. W. CUNNINGHAM, president, LEROY NICKENSON, superintendent, JACK DUNN, superintendent, all with the T. W. Cunningham, Inc., and RICHARD E. PAYZANT, area engineer, U. S. Engineers.

F. N. RICKS (left above) is assistant resident engineer and MAJ. HUBERT B. ELDER (right) resident engineer, for the U. S. Engineers on construction of Dale Hollow Dam in Tennessee.

MEN AT WORK

Details of a wharf project in the eastern part of the United States are discussed by LIEUT. J. R. GARDNER, resident engineer for the U. S. Engineers, and JOSEPH CUNNINGS, superintendent on the job for C. J. Maney Co., contractor.

On the difficult job of constructing an access road to the Wolf Creek Dam site in Kentucky, ROBERT C. JOHNSON (left) was resident engineer for the U. S. Engineers during the last part of the work and C. P. CARTER (right), resident engineer during the early stages.

MEN AND JOBS

G. L. Gleason, district engineer at Ames, Iowa, for the Iowa Highway Commission, has been commissioned a major in the Iowa State Guard.

Raymond R. Zack, district engineer at Mason City, Iowa, for the Iowa Highway Commission, has been named acting engineer of estimates and contracts for the commission, replacing **C. C. Coykendall,** who resigned recently.

Homer R. Lucas, former maintenance engineer at Jefferson City, Mo. for the Missouri State Highway Department, has been named acting chief engineer for Division No. 9 at Willow Springs.

Lester Allen, former county engineer of Pawlins County, Kan., has been named county engineer for Pottawatomie County with headquarters at Westmoreland.

Leon Maslan and **James A. Rhodes,** formerly employed in the U. S. District Engineer Office at Savannah, Ga., have been called to active service as second lieutenants in the Corps of Engineers.

Maj. Leonard N. White, who supervised development of Adams Field, Little Rock, Ark., as a civilian engineer, will have charge of a new Army program for the airport.

John G. Clark of Greenville, N. C., has been appointed a member of the North Carolina state highway and public works commission to fill a vacancy left by the death of E. G. Flanagan, also of Greenville.

Eugene D. Gardner, supervising engineer of the Southwest experiment station of the Bureau of Mines since 1925, has been appointed regional engineer in charge of the newly organized Central States office at Rolla, Mo.

Richard M. Barbour has been appointed assistant geologist for the North Carolina State Department of Conservation and Development.

C. Frank Johnson has been promoted to the position of chief engineer for the Commissioners of Sewerage of Louisville, Ky., succeeding the late Woolsey M. Caye.

H. N. Sutton, resident engineer of the city of Charlotte, N. C.'s engineering department, has been elected city superintendent of parks and recreation.

Myron C. Kinder, assistant engineer of the Mahoning Valley sanitary district, at Youngstown, Ohio, has joined the engineering staff of Arthur G. McKee Co., Cleveland.

Capt. Perley M. Lewis, area engineer at the Army air base at Omaha, has been appointed area engineer for the Sidney ordnance plant at Sidney, Neb.

R. E. Bates, city engineer and executive secretary of the Lakeland, Fla. housing authority, has resigned from both positions in order to accept an appointment as senior housing management adviser with the federal public housing authority. His new headquarters will be Atlanta, Georgia.

Edmund Friedman, county engineer for Dade county, Fla., since 1932, has been granted a leave of absence to accept a captain's commission in the Corps of Engineers.

Maj. Robert F. Metcalfe of Fort Riley, Kan., will become post engineer at Fort Des Moines, Iowa.

George S. Atkinson of Fayetteville, N. C., recent civil engineering graduate of North Carolina State College, has been called to service as a second lieutenant in the Corps of Engineers.

Maj. W. W. Towne, sanitary engineer in the U. S. Public Health Service, has been assigned to the medical division of the regional office of civilian defense at Cleveland, Ohio.

Charles M. Slaymaker, district engineer at Springfield with the Illinois state division of highways, has tendered his resignation from the office. **Mathew J. Fleming,** assistant chief state highway engineer, also has resigned.

Charles V. Morgan of Manteo, N. C., district health sanitarian for Currituck and Dare counties, has been appointed sanitarian for Pasquotank County health department at Elizabeth City.

Promotions of seven officers assigned to the Seattle district of the Army engineers have been announced by **Col. Peter P. Goerz,** district engineer. Promoted from captain to major were: **John S. Wilfley, H. Hogan, Arthur C. Nauman,** and **Carl A. Anderson.** Promoted from second to first lieutenant were: **Edward C. Mahlum, William B. Matlock,** and **Ernest J. Simons, Jr. Maj. Robert C. Moffitt,** formerly assistant to the chief of the construction division, was named Yakima area engineer; **Maj. Sedric A. Payette,** assistant Fort Lewis area engineer, becomes resident engineer at Prince Rupert, B. C., and **Capt. George Pollister** has been transferred from the Seattle district to the Mountain division at Salt Lake City, Utah.

Richard C. Stewart, a former employee of the U. S. Engineer Department at Louisville, Ky., has been called to active service as a lieutenant in the Corps of Engineers.

Thomas H. Milford of Birmingham, Ala., will become chief engineer of the state health department's sanitary bureau, succeeding **D. S. Abell,** who resigned recently to enter the Army.

Alfred Benesch, engineer of grade separations for the Illinois state division of highways, has reported for service as a captain in the Corps of Engineers.

Robert J. Schomer, Mahoning county, Ohio, engineer, has resigned to accept a commission as captain in the Corps of Engineers. The youngest person ever elected to the county office, Schomer went to work in 1936 when he was not quite 28 years old.

T. Carlton Kirkman has been appointed city engineer and temporary director of public works at High Point, N. C., to succeed **Silas McBee,** who resigned recently to enter private employment.

Thomas Earl Brand, formerly of Portsmouth, Ohio, has been appointed state architect and engineer to fill the vacancy occasioned by the enlistment of **Robert B. Schildknecht** in the U. S. Navy.

C. W. Klassen, chief state sanitary engineer for Illinois, has been named as gas consultant to the Illinois state defense council.

Howard D. McMurtry, district engineer of the U. S. Soil Conservation Service at Paducah, Ky., has been appointed a first lieutenant in the Army Air Forces.

Lloyd H. Bartlett, an engineer at Rockcliffe airport, Ont., has been commissioned as lieutenant in the Royal Canadian Engineers.

C. A. Bowles, associate engineer, second division at Birmingham for the Alabama State Highway Department, and **Morris Pepperman,** assistant chief draftsman of the plans and surveys section, have been commissioned in the Corps of Engineers.

James H. Lake, South Dakota state highway commissioner since 1939, has resigned to accept an appointment as city manager of Rapid City, S. D. A graduate in engineering from Iowa State College, Mr. Lake joined the highway department in 1919.

Used pipe purchase will aid waterworks expansion

Foresight in the purchase of used steel pipe will enable the city of Springfield, Mass., to carry out a $537,000 waterworks expansion project.

According to Elbert E. Lockridge, chief engineer of the Springfield water department, the city some months ago dispatched a buyer on a nationwide quest for "any material of any nature that could be relied on to carry the city through its period of emergency expansion." Specifically, this buyer was to acquire enough pipe to expand the municipal water system.

At St. Louis, Mo., a large quantity of 26-in. steel pipe, made of ¼ in. plate, was found and promptly purchased. At Houston, Tex., another municipal stockpile of 30 in. dia. was discovered and bought. Shipped to Springfield, this pipe will be cut and rerolled into 50-in. and 60-in. dia. mains.

The project at Springfield calls for laying about 12,000 ft. of pipe that will connect the West Parish filters with Provin Mountain Reservoir and a purification station. An FWA grant of $214,800 in Lanham Act funds will be available for the work.

• • •

WPB cancels priority for Houston water supply

The War Production Board has suspended priority ratings granted July 6, for the construction of a water supply project at Houston, Tex., by the San Jacinto River Conservation and Reclamation District. The suspension will remain in force until WPB investigates relative merits of competing claims of the district and the city of Houston for the construction of the same project.

The San Jacinto River group had announced that it has prepared to start work Aug. 10 on a $5,750,000 project to provide for water for the industries along the Houston ship channel (*ENR*, July 23, p. 135).

According to the WPB, the city of Houston last fall filed an application with the Federal Work Agency for a grant to enable it to build this water system, and last winter the San Jacinto Conservation and Reclamation District also filed with FWA for a similar grant. At the same time, the district filed an application with WPB for priority assistance, and was granted the priority rating since the city had not then applied for assistance. On Aug. 6 the mayor of Houston presented the case for the city to WPB and asked that construction of the project be held up until the matter was investigated.

• • •

Contracts let for world's worst road

George P. Mahoney, Baltimore, Md., contractor, has received a contract from the War Department to construct the world's worst road, and to keep the road in the most atrocious condition. The proposed road is to be constructed at the Aberdeen Proving Grounds by the U. S. War Department, and specifications call for simulated shell holes, gaps, dizzy inclines, and submerged roadways for field testing Army motorized weapons.

Priorities clinic at sanitation conference

One of the features of the Cleveland Conference of the Federation of Sewage Works Associations on Oct. 22-24, will be a priorities clinic at which municipal officials can get expert advice on securing materials and equipment, according to Morris M. Cohn, chairman of the publicity committee.

It is also announced that the conference will include a manufacturers' exhibit laying stress on the conservation and maintenance of sewage treatment devices.

Highlight of the technical program is an address by J. V. N. Dorr, president of The Dorr Co.

• • •

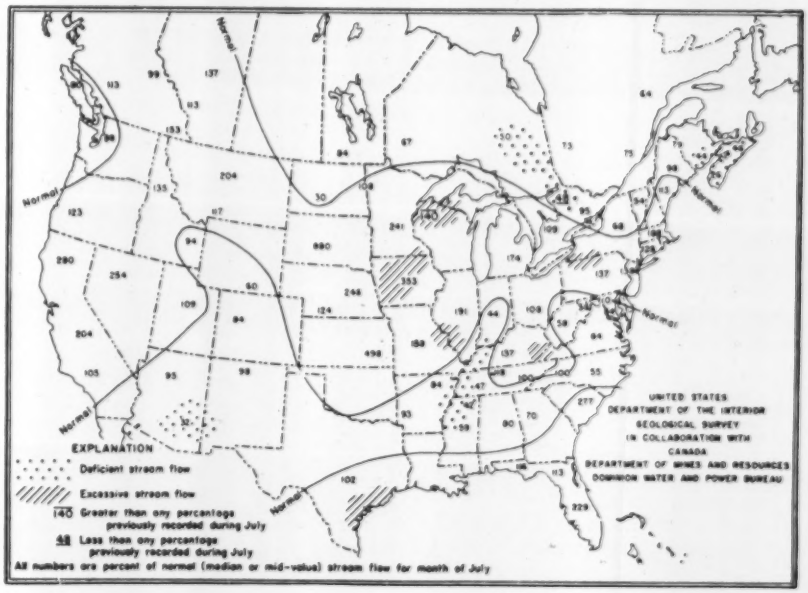
WPB gets 2,800 tons of abandoned car rails

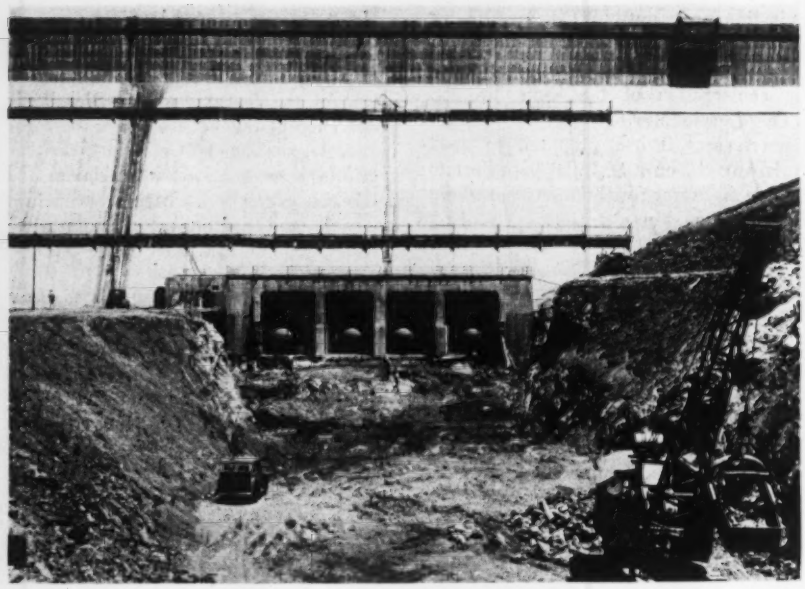
The city of Charlotte, N. C., has authorized the release of an estimated 2,800 tons of abandoned street car rails buried beneath its streets to the War Production Board. The release of the rails was authorized on condition that the work be done at no cost to the city and according to specifications approved by the city engineer. Also, that the project be completed as speedily as possible and with a minimum of disruption to traffic, that the city be provided with a public liability policy covering possible personal injuries and property damage that may arise from the project, and that work not be started until permission is obtained from the North Carolina Highway and Public Works Commission. It is understood that these conditions have been met and agreed upon by WPB.

Water for industrial use plentiful—stream flow favorable in most sections.

The amount of water artificially stored and available for hydro-electric power, industrial use and irrigation on July 31 continued to remain very favorable throughout the United States and Canada. Total in storage exceeded that of one year ago and also exceeded the average amount generally available on July 31. Storage for irrigation throughout the West exceeds that of one year ago and prospects are very favorable for appreciable amounts of storage to be held over.

The monthly stream flow report listed sufficient stream flow in three areas—northern Mississippi, western Tennessee and western Kentucky; eastern Ontario; and a coastal area in Nova Scotia and eastern New Brunswick, Canada. Groundwater conditions in the north Atlantic coast states improved during the month but remain somewhat unfavorable in the South. Groundwater was especially favorable in Midwestern states and in the Intermountain region.


Normal
EXPLANATION
Deficient stream flow
Excessive stream flow
145 Greater than any percentage previously recorded during July
48 Less than any percentage previously recorded during July
All numbers are percent of normal (median or mid-value) stream flow for month of July
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY IN COLLABORATION WITH CANADA DEPARTMENT OF MINES AND RESOURCES DOMINION WATER AND POWER BUREAU



Start work on Friant Dam outlet works

Facing directly into the 110-in. outlet pipe of Friant Dam, the photograph above shows excavation work in progress on the Friant-Kern Canal in the stilling basin section, as work begins on related structures for the huge project of the Central Valley project in California. Millerton Lake, created by damming the San Joaquin River, will provide supplemental irrigation water to thousands of acres of land in the upper San Joaquin Valley, to which it will be carried by the Madera and Friant-Kern canals.

Highway bureau freed of responsibility for ice

The Connecticut Supreme Court of Errors has reversed a lower court judgment awarding William J. Pape, Waterbury publisher, damages from the state highway department as a result of ice forming on a highway.

The lower court had awarded Mr. Pape $4,500 as a result of an accident in Middlebury Nov. 20, 1940, when the publisher was injured when his own and another car skidded.

The court said in its opinion:

"It would impose too heavy a burden upon the highway department to hold it to the duty of inspecting to discover an icy condition." The decision followed very closely a similar one several months ago involving injuries to a miner from a car skidding (*ENR* April 2, p. 520).

• • •

Virginia recruits army maintenance repair unit

District and resident engineers of the Virginia State Highway Department are cooperating in the task of recruiting a United States Army ordnance repair company for the maintenance of combat vehicles. The company will be composed of five officers and 215 enlisted men.

R. P. Ellison, equipment engineer representing the Virginia Highway Department, said many of the men who join the company will have an opportunity to advance their technical knowledge.

Applicants may apply to any department engineer for blanks and interviews. It is believed that a majority of the company's personnel can be recruited from automobile and truck companies, filling stations and similar organizations that have been forced to curtail activities.

• • •

Reorganize Canadian Army engineers headquarters

The engineering branch of the Canadian Army—the office of the Quartermaster-General—has recently been reorganized to expand the staff from one to three deputy quartermaster generals.

Reporting to Maj. Gen. J. P. Mackenzie, Quartermaster General, the deputies will be responsible for three new divisions—works and construction, engineering development and transport and movements.

Col. Noel D. Lambert, formerly director of engineering services, has been raised to the rank of brigadier general and placed in charge of engineering; Lt. Col. E. J. W. Akins has been appointed director of works and construction, with the rank of colonel; and Maj. E. C. Thorne has been appointed acting director of engineering development, with the rank of lieutenant colonel.

The present deputy quartermaster general, Brig. Gen. E. J. Penaud, remains as senior deputy.

Treated timber output increased last year

The record of treated timber use in the United States during 1941, compiled by R. K. Helphenstine, Jr. of the U. S. Forest Service in cooperation with the American Wood Preservers Association and just released for publication shows a 20 percent increase over 1940.

Total volume of timber treated was equivalent to 3,829,973,064 bd. ft., and was greater than in any year since 1930. The high total of a dozen years ago resulted from a larger number of cross ties treated then. Last year's output of other material, however, such as timber and miscellaneous lumber, piles and poles, was the greatest ever treated in any one year by the wood preserving industry.

As in previous years, the greatest single class of timber treated was in the form of cross ties which constituted 44.8 percent of the total volume. Poles ranked second, accounting for 28.21 percent, lumber and timber 16.52 percent, piles, 6.76 percent, and switch ties 3.71 percent.

Cross ties treated increased 11.71 percent over 1940 because of track extensions to serve war plants and army camps. Over 60 percent of all cross ties were treated with creosote or creosote-coal tar solution. Creosote-petroleum solution was used for 37 percent of the total, while the balance was treated with zinc chloride, both plain and chromated, zinc-meta-arsenite, Wolman salts, and miscellaneous other materials.

Heavy timbers used in bridges, trestles, etc., wood block flooring, etc., totaled 632,000,000 bd. ft., an increase of 35.77 percent over the previous year. Creosoted wood block flooring amounted to over 25,000,000 sq. ft. equivalent to nearly 90,000,000 bd. ft., a gain of 174 percent over the 1940 figure.

Nearly 32,000,000 lin. ft. of piles were treated, the largest amount on record and an increase of 37.77 percent over the previous year. Of the total, 76.21 percent was Southern Pine and 22.37 percent Douglas fir. The remainder included Norway or red pine, oak, Western red cedar, and miscellaneous species. Creosote or creosote coal tar solutions were used for 96.8 percent of the piles.

Of the total wood treated, the equivalent of 3,600,000,000 bd. ft. or 94.29 percent was treated with creosote or creosote mixtures, 67,000,000 bd. ft. with chromated zinc chloride, 33,000,000 bd. ft. with zinc chloride, 57,000,000 bd. ft. with Wolman salts and the remaining 61,000,000 bd. ft. with eleven different salts or oil mixtures.

The consumption of chromated zinc chloride was 4,382,561 lb., an increase of 421,665 lb.; zinc chloride 1,403,863 lb., an increase of 183,863 lb., and Wolman salts 1,656,014 lb., an increase of 593,966 lb. over 1940.

OBITUARY

Charles Gaedcke, 49, a civil engineer, associated with E. S. Badger & Sons Co., structural engineers of Boston, died at Elizabeth, N. J., August 16.

Lars Bergsvik, prominent Pacific Northwest engineer, died August 6 at Portland, Ore. Mr. Bergsvik was engineer for the Conconully Storage Dam in Washington and superintended construction of the Sherburn Lakes Dam in Montana for the U. S. Bureau of Reclamation. For many years he was employed by the Astoria, Ore., Water Commission, and as its chief engineer reconstructed and supervised the Astoria city water works.

F. H. Kester, former general manager of the Canadian Bridge Co., Walkerville, Ont., died in Detroit on August 6. Mr. Kester had been associated with the Canadian Bridge Co. for about 30 years. Last year he was appointed consulting engineer after his retirement.

Julian E. Blackley, 43, of Danville, Va., engineer for the Virginia Highway Department, died at Durham, N. C. on August 9. Mr. Blackley was formerly connected with the Kiker Construction Co. of Reidsville, N. C. before joining the Virginia Highway Department.

Henry H. Fishkind, 50, civil engineer of the New York City Department of Public Works, died August 6 at Peekskill, N. Y. During the first World War, Mr. Fishkind served as a lieutenant in the Engineering Corps.

Nicholas D. Wortendyte, 87, civil engineer and former assistant chief engineer of the Jersey City Water Works, Jersey City, N. J., died August 6, at Orange, N. J.

J. Walter May, construction manager for United Engineers & Constructors, Inc., died August 9 at Philadelphia, Pa. During his association with the United Engineers, he was in charge of many large contracts in the Philadelphia area, including the U. S. Quartermaster Terminal, Franklin Memorial, Eastern State Penitentiary at Graterford and several buildings at Girard College.

Col. Albert K. Lyman, a graduate of the U. S. Military Academy at West Point in 1909, from the Army Engineer School in 1912 and from the Army Industrial College in 1936, died of a heart attack in Honolulu on August 13. Col. Lyman a few days before his death had been nominated for promotion to the rank of Brig. General. He was 57 years old.

William A. Megraw, former Water Engineer for the city of Baltimore, Md., died August 12, at Baltimore. Mr. Megraw had played an important part in the design and construction of water facilities for that city, and during World War I, he was design engineer for the Bureau of Yards and Docks, Navy Department.

Robert Franklin Gibson, 53, retired civil engineer, died August 6 at Marion, N. C.

L. D. Matter, consulting engineer, died at Dallas, Tex., August 7. Mr. Matter had been engaged on engineering work at various army camps.

Albert Geiger, structural engineer, died Aug. 10 at Jersey City, N. J. Mr. Geiger was formerly superintendent for the Carleton Co. of New York on the Sixth Ave. subway job and also was employed on construction of Grand Coulee Dam. He was 57 years old.

John E. Bryant, 58, building contractor in Birmingham, Ala., for 20 years and recently connected with the construction department of the Carnegie Steel Corp., died at Pittsburgh, Pa., recently.

Roy F. Goodman, 60, a former Palm Beach County (Fla.) engineer, died recently at Ely, Nevada.

CONTRACTS AND CAPITAL

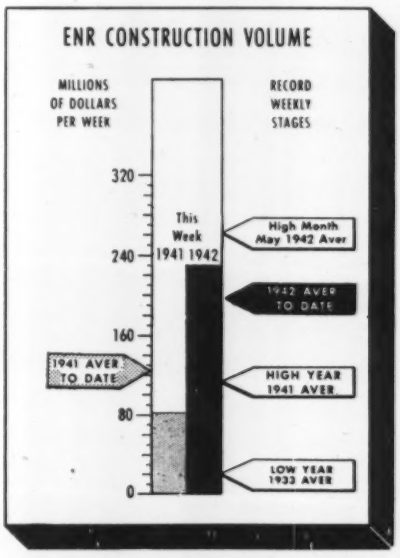
ENGINEERING CONSTRUCTION volume for the week totals $230,706,000, almost triple the total reported for the corresponding 1941 week, and 15 percent higher than a week ago. Public work climbs 261 percent above the week last year, and is 18 percent higher than in the preceding week. Private construction, however, is 64 percent lower than a year ago, and 40 percent under a week ago. Federal work, the factor responsible for the public gain, is 375 percent above the 1941 week, and 19 percent above last week.

The current week's volume brings 1942 construction to $6,702,099,000, an increase of 59 percent over the total for the 34-week period last year. Private construction for the period, $429,093,000, is 51 percent below last year, but public work, $6,273,006,000, is 88 percent higher than a year ago as a result of the 138 percent gain in federal construction.

In the classified construction groups, gains over the 1941 week are in waterworks, sewerage, public buildings, streets and roads, and unclassified construction. Increases over last week's totals are in waterworks, bridges, public buildings, streets and roads, and unclassified construction.

New capital for construction purposes for the week totals $8,126,000, a gain of 95 percent compared with the 1941-week total. The week's new financing is made up of $7,651,000 in state and municipal bond sales, and $475,000 in corporate securities.

New construction financing for the year to date, $9,517,774,000, is 77 percent higher than the total for the 34-week period last year.



CONTRACTS

(Thousands of dollars)

	Week Ending Aug. 21 1941	Aug. 13 1942	Aug. 20 1942
Federal	$45,599	$182,967	$217,040
State & Municipal	16,522	6,744	7,184
Total public	$62,121	$189,711	$224,224
Total private	18,040	10,889	6,482
TOTALS	$80,161	$200,600	$230,706

Cumulative
1942 (34 weeks) $6,702,099
1941 (34 weeks) $4,205,394

Note: Minimum size projects included are: Waterworks and waterways projects, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	Cumulative 1941 34 weeks	1942 34 weeks
NON-FEDERAL	$974,716	$550,876
Corp. Securities	290,724	164,324
State & Mun.	320,722	175,433
U.S.H.A. loans	30,399	.....
R.E.A. loans	100,500	.....
R.F.C. loans	69,371	128,419
Fed.-Aid—Highways	163,000	82,700
FEDERAL	$4,397,589	$8,966,898
TOTAL CAPITAL	$5,372,305	$9,517,774

ENR INDEX NUMBERS

Index Base = 100		1913	1926
Construction Cost	Aug. '42	281.61	135.37
Building Cost	Aug. '42	225.39	121.84
Volume	July '42	736	323

FHA MORTGAGES

	Week Ending Aug. 16 1941	Aug. 8 1942	Aug. 15 1942
Selected for appraisal			
Title II	$31,206	$6,074	$6,152*
Title VI	$4,952	$15,573	$14,368*

*Subject to revision.

CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York
ELSIE EAVES, Manager *SCOTT McLEOD, Statistician*
(Daily service also available—Write for details)

Location of ENR Correspondents

Symbols and Abbreviations Include

† Federal Government
★ Project of $500,000 or over
ENR Engineering News-Record
CD Engineering News-Record Construction Daily
A-E-M Architect — Engineer-Management type of contract.

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger: water supply, earthwork, waterworks, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Named in order of Listing)

Water Supply — Unclassified
Sewers, Waste Disposal — Latin America
Bridges, Grade Cross'gs — Public Buildings
Streets & Roads — Commercial Buildings
Earthwork, Waterways — Industrial Buildings

Stages Reported

PROPOSED: (except Streets & Roads):

BIDS ASKED (new announcements only. For full calendar, see also preceding issues of ENR):

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Note: To comply with censorship requirements, adaresses on some reports are being generalized. Data which would reveal the purpose of the improvements and the size are withheld. The name of contractor and general area are reported.

WATER SUPPLY

PROPOSED WORK

Kan., Coffeyville—Voted $97,000 bonds, water and power line. CD 7/22—ENR 7/30.

†**Mass., East Longmeadow**—Federal Works Agency, 99 Chauncy St., Boston, soon takes bids water sys., Mass. 19-168. $50,000. FWA. Tighe & Bond, 189 High St., Holyoke, engrs. CD 8/4—ENR 8/6.

†**North Carolina**—U. S. Eng., 308 Customhouse, architect-engineer services by J. N. Pease & Co., Inc., Johnston Bl., Charlotte, water pump. station, filtration plant addns. under $50,000.

O., Akron—G. J. Harter, mayor, 16 in. water main. $35,000. W. R. LaDue, 1153 Avon St., engr.

†**Ore., Medford** — City, chlorination equip. $4,000. FWA grant.

†**Ore., Pendleton**—City, City Hall, extending water sys. $360,000 FWA.

†**Rhode Island**—U. S. Eng., 819 Industrial Trust Bldg., Providence, rejected bids watermains. Est. $15,000. CD 8/3—ENR 8/6.

†**S. C., Union**—City, soon takes bids extending WW sys. SC 38-150. $165,000. FWA Garwood-Beebe, Spartanburg, engrs.

Tenn., Cleveland—Water plant, distr. sys. $60,000. Freeland, Roberts & Co., 3rd Natl. Bank Bldg., Nashville, engrs.

Tex., Hondo—City, F. Vance, secy., WW sys. expan. and imprvs. $60,000. Applying for FWA funds. CD 4/10—ENR 4/16. Tex. 41-560.

★**Tex., Houston** — City, emergency WW imprvts., open earth canal between San Jacinto River and Ship Channel River. $1,500,000. Applied to FWA. Halle & McClendon, 2801 San Jacinto St., engrs. G. L. Fugate, c/o City, engr.

†**Utah, South Ogden**—Town, received no bids July 21, WW imprvts., Docket Utah 42-901. $60,000. Indefinitely postponed. CD 7/10—ENR 7/16.

†**Vt., Springfield**—Town, bids soon, water sys., 600,000 gal. reservoir, supply mains, DPW, $59,484. Metcalf & Eddy, 1300 Statler Bldg., Boston, Mass., engrs.

†**Wash., Kirkland**—City, 10,000 ft. 12 in. watermains, 4 reservoirs, FWA. 45-209. $380,000. H. H. Sisler, City Hall, engr.

Wis., La Crosse—La Crosse Public Water Utility Co., drilling new well. $17,000.

Que., Morin Heights—C. E. Seale, municipality clk., WW sys. $50,000.

BIDS ASKED

Bids Asked August 27

Wis., La Crosse—Drilling well, Sill St. and at Myrick Park; bldgs. to house units; primary service and control equip. J. H. Barth, city engr. CD 12/9—ENR 12/11.

Bids Asked

†**Rhode Island**—U. S. Eng., 819 Industrial Trust Bldg., Providence, watermains. Former bids rejected. Over $15,000. CD 8/12—ENR 8/6.

LOW BIDDERS

†**California**—U. S. Eng., Wright Bldg., Sacramento, Aug. 11, water, gasoline, sanitary sewer and gas sys., Inv. 132, from Trewhitt-Shields & Fisher, 1501 Pacific Southwest Bldg., Fresno. $36,008. CD 8/7.

CONTRACTS AWARDED

†**Alabama** — U. S. Eng., 306 Courthouse, Nashville, Tenn., water treatment and pump. plant, Lawrence Co., to C. F. Hooks, 520 S. W. 15 St., Birmingham. $50,000-$100,000.

†**Arkansas** — U. S. Eng., P. O. Box 97, Memphis, Tenn., water pumping, water storage and water treatment plant, to F. Micklish & J. T. Fite, Jonesboro. $100,000-$500,000.

†**Arkansas**—U. S. Eng., 300 Bway., Little Rock, constructing wells, Benton Co., to Alide Wells Co., Garden City, Kan. Under $50,000.

†**Arkansas**—U. S. Eng., U. S. Post Office & Court House, Vicksburg, Miss., wells, Drew County, to Layne Arkansas Co., Stuttgart, under $50,000.

★†**Arkansas**—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, water distr. and sanitary sewerage sys., sewage treatment plant, reservoir, pumping station to L. O. Brayton Co., Dyersburg, Tenn. $500,000-$1,000,000.

†**California** — U. S. Eng., Wright Bldg., Sacramento, water, gasoline, waste water disposal and electrical sys., Solano Co., to Frank Myrl Crane, San Francisco, under $50,000.

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, water and sewer lines, San Francisco Co., to Macnsons, 161 Tehama St., San Francisco. Under $50,000.

†**California**—U. S. Eng., 1209 8 St., Sacramento, water supply sys. and wells, San Joaquin Co., to Food Machinery Corp., San Jose, under $50,000.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, drilling water well, Riverside Co., to Roscoe Moss Co., 4360 Worth St., Los Angeles. Under $50,000.

†**Florida**—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, water supply sys. and sewage tr. plant, Jackson Co., to W. C. Shepherd, 2450 Briarcliff Rd. N.E., Atlanta, Ga. $100,000-$500,000.

†**Florida**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., well, Santa Rosa Co., to Layne Central Co., 1993 Chelsea Ave., Memphis, Tenn. Under $50,000.

†**Georgia** — U. S. Eng., Postoffice Bldg., Savannah, water wells, Chatham Co., to Layne-Atlantic Co., Cromwell Rd., and Flanders Ave., Norfolk, Va., under $50,000.

†**Georgia** — U. S. Eng., Postoffice Bldg., Savannah, well, Liberty Co., to Layne-Atlantic Co., Cromwell Rd. and Flanders Ave., Norfolk, Va., under $50,000.

†**Georgia** — U. S. Eng., Postoffice Bldg., Savannah, water distr. sys., Liberty Co., to Murray-Cook Co., Buena Vista, under $50,000.

†**Idaho**—U. S. Eng., Pittock Blk., Portland, Ore., flushing hydrant, to J. Nottingham, Boise. Under $50,000.

†**Idaho**—U. S. Eng., Pittock Block, Portland, Ore., constructing well, Ada Co., to J. Cowe, Bway. Ave., Boise. Under $50,000.

†**Louisiana**—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, Miss., ... Lincoln Parish, to Louisiana Well Co., ... under $50,000.

†**Michigan**—U. S. Eng., 700 U. ... Guardian Bldg., Detroit, water wells, ... to Layne Northern Co., Inc., Mishawaka, Ind., under $50,000.

†**Michigan**—U. S. Eng., 700 U. ... Guardian Bldg., Detroit, watermains, ... sewers, Washtenaw Co., to Chris Nelson, ... Hudson St., Royal Oak, under $50,000.

†**Mississippi**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., ... electric and sewerage systems, Forrest ... to Shuptrine Constr. Co., Centreville, $100,000-$500,000.

†**Miss., Biloxi**—City, 3 water pumping units, 3 chlorinator units, Miss. 22-115, etc., to Collins Bros. Contg. Co., Biloxi. CD 5/5—ENR 6/4.

†**Missouri**—U. S. Eng., U. S. Courthouse & Customhouse, St. Louis, reservoir, to Prehoda Co., 84 West Dedham St., Boston, Mass.

†**Missouri**—U. S. Eng., U. S. Courthouse and Customhouse, St. Louis, pump houses and wells, Ste. Genevieve Co., to G. E. Brainerd, Salem. Under $50,000.

†**Montana**—U. S. Eng., Administration Bldg., Fort Peck, water distr. sys., Glacier Co., to Glacier Constr. Co., Cut Bank, under $50,000.

†**Montana**—U. S. Eng., Administration Bldg., Fort Peck, water well, Glacier Co., to Walter A. Hale, Cut Bank, under $50,000.

†**Montana**—U. S. Eng., Administration Bldg., Fort Peck, water distr. and sewage collection sys., Fergus Co., to W. P. Roscoe Co., Billings, $50,000-$100,000.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, water distr. and sewerage system, Sarpy Co., to Inland Constr. Co., 3867 Leavenworth St., Omaha.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, water distr. sys., Box Butte Co., to Empire Constr. Co., 901 S. 40 St., Omaha, $100,000-$500,000.

†**New Mexico**—U. S. Eng., Albuquerque, water supply wells, Curry Co., to R. I. Wilson, Roswell, under $50,000.

†**North Carolina**—U. S. Eng., 308 Customhouse, Wilmington, concrete water storage tank and hydro-pneumatic pump. station, Durham Co., to William Muirhead Constr. Co., Durham, under $50,000.

†**North Carolina**—U. S. Eng., 32 Customhouse, Charleston, S. C., water supply facilities, Robeson Co., to D. M. Rickenbacker, Union, S. S. $100,000-$500,000.

★†**Ohio**—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., watermain, to W. L. Johnson & Co., Toledo, less than $1,000,000.

†**Okla., Tulsa**—W. F. McMurry, City Hall, Contr. 2, WW sys., Okla. 34-101, to Turbine Equipment Co., 75 West St., New York, N. Y. $79,965.

†**Oregon**—U. S. Eng., Pittock Blk. S. W. 10 Ave. and Washington St., Portland, drilling well, Morrow Co., to A. A. Durand & Son, Walla Walla, Wash., under $50,000.

†**Pennsylvania**—U. S. Eng., Standard Oil Bldg., Baltimore, Md., storage reservoir and water supply mains, Cumberland Co., to C. W. Good, Inc., 726 Columbia Ave., Lancaster, $100,000-$500,000.

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, drilling, casing wells, Horry Co., to J. R. Connelly Contg. Co., Varnville, under $50,000.

†**Texas**—U. S. Eng., 25 St. and Ave. F, Galveston, water wells, tanks, pump. station, power plant, reservoir, Harris Co., to Layne-Texas Co., Ltd., 6931 Harrisburg Bldg., Houston, under $50,000.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, water wells, pump. equip., Brazos Co., to Texas Water Supply Corp., 951 McCarty St., Houston, under $50,000.

†**Texas**—U. S. Eng., San Antonio, water, sewage facilities, Taylor Co., to T. S. Armstrong and J. L. Webb, Abilene. Under $50,000.

†**Texas**—U. S. Eng., San Antonio, constructing well, Johnson County, to Wiegand Bros., Milan Bldg., San Antonio, under $50,000.

†**Texas**—U. S. Eng., Albuquerque, N. M., water supply wells, Ward Co., to B. Purcell, Monahans, under $50,000.

†**Texas**—U. S. Eng., San Antonio, water and sewerage systems, Taylor Co., to David Vickers Co., Dorscher Bldg., Sweetwater. $50,000-$100,000.

WATER SUPPLY (Contracts Awarded, Cont'd.)

†**Texas**—U. S. Eng., 231 W. Main St., Denison, water and sewerage systems, Cooke Co., to Sherman & Everett, Associated, Houston. $50,000-$100,000. CD 8/7—ENR 8/13.

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, water sys., to Oak Sheet Metal Wks. and J. R. Dunden, Oak Harbor. **$100,000-$500,000.**

Ont., Camp Borden—Dominion Govt., Ottawa, drilling water well, to Railway & Power Eng. Corp., Ltd., 171 Eastern Ave., Toronto, $22,000. Dpt. Natl. Defense, Ottawa, engrs.

Ont., Mountain View—Dpt. Natl. Defense for Air, Ottawa, water filtration plant at Bombing and Gunnery school, to E. R. Clark, 148 Bloor St. W., Toronto, **$15,000.**

Que., Ville La Salle—A. Gravel, municipality clk., water main Ave. Lefleur, to L. Quarry, 7 St. Martin Rd., L'Abord a Plouffe, $48,777. W. E. Lauriault, 861 Convent St., Lachine, engr. CD 1/16—ENR 1/22.

SEWERS, WASTE DISPOSAL

PROPOSED WORK

†**Ala., Birmingham**—City, bids soon sewer facilities, $15,000, exten. water line, Ala. 1-218, $6,937. FWA. J. D. Webb, city engr.

†**Ala., Phenix City**—FWA, Chandler Bldg., Atlanta, Ga., **bids soon, sewer impvts.** FWA. $75,000. Chas. Holstein, Phenix City, engr.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, plans by H. N. Jenks, Palo Alto, sewage disposal program. Orange Co.

†**Conn., Bridgeport**—Federal Works Agency, 18 and F Sts., N.W., Wash., D. C., storm sewers. $25,000. FWA. H. Rowland, City Hall, engr.

†**Fla., Orlando**—City, bids soon sanitary sewer extens., Fla. 8-239. **$87,195.** FWA.

†**Mass., East Longmeadow**—Federal Works Agency, 99 Chauncy St., Boston, soon takes bids 8 in. pressure sewer and 12 in. gravity sewer, Mass. 190169. FWA. $45,000. Tighe & Bond, 189 High St., Holyoke, engrs. CD 8/4—ENR 8/6.

Minn., Duluth—C. D. Jeronimus, city clk., sewage disposal sys. at 21 Ave. W. below Michigan St. $30,000. I. Ward, city engr.

Ore., Springfield—Trunk sewer and disposal plant, Docket 35-138. $236,035. Funds sought from FWA.

Tex., College Station—City, E. Langford, mayor, sanitary sewerage sys imprvs. $28,650. Applied for FWA funds. F. Giesecke, c/o City, consult. engr.

Tex., Hondo—City, c/o F. Vance, secy., sewerage sys. $111,693. J. Montgomery, Littlefield Bldg., Austin, engr. Applied to FWA.

†**Wash., Vancouver**—City, intercepting sewer. $198,000. FWA grant approved.

Wis., Delavan—Disposal sys., sanitary and storm sewers. Federal Eng. Co., Central Office Bldg., Davenport, engrs.

Ont., Copper Cliff—International Nickel Co. of Canada, Ltd., Copper Cliff., sewers, water lines, addnl. housing at Murray Mine. $60,000.

BIDS ASKED

Bids Asked September 2

Calif., Los Angeles—Vitr. clay sanitary sewers Belle Porte Ave. and 206 St. Sewer Dist. $59,091. L. Aldrich, City Hall, engr.

LOW BIDDERS

Calif., Salinas—Alisal Sanitary Bd., 730 E. Market St., Aug. 10, sewer collecting sys., from Oakland Sewer Constr. Co., 9915 Walnut St., Oakland. **$218,727.** CD 7/13—ENR 7/16.

Calif., San Diego—City, Cabrillo Canon Sewer, from J. S. Barrett, 455 Spreckles Bldg., San Diego. **$314,133.** CD 7/24.

La., New Orleans—Sewerage & Water Bd., 2,120 lin. ft. 36 in. sewers Odin and Spain Sts., Contr. 134-S, from Boh Bros. Constr. Co., 2400 Cypress St., **$67,100.**

N. S., Halifax—G. S. Kinley, deputy mayor, incinerator, from Francis Hankin Co., Ltd., 2028 Union St., Montreal, Que., **$100,000.** Est. $200,000. CD 3/2—ENR 3/5.

CONTRACTS AWARDED

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, sewer and water lines, Orange Co., to Hood Constr. Co., Huntington Park, under **$50,000.**

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, trunk line sanitary sewer, Monterey Co., to J. Pestana, 4029 Fruitvale Ave., Oakland. Under **$50,000.**

†**Florida**—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, sewage disposal sys., Dade Co., to McGuire Plumbing Inc., 85 N.E. 62 St., Miami. Under **$50,000.**

†**Florida**—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, drainage for bldg area, Inv.-Neg., to John E. Ballenger Constr. Co., Lakeland, less than **$1,000,000.**

†**Florida**—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, sewage tr. plant, to E. T. Clauson, St. Petersburg. Less than **$500,000.**

†**Georgia**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., sewage pump sta., water distr. and sanitary sewers, Muscogee Co., to Murray Cook Co., Buena Vista, under **$50,000.**

†**Georgia**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., pump. sta., sewers, etc., to C. H. Cook, Inc., Buena Vista.

†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah, sanitary sewers, Liberty Co., to Espy Paving & Constr. Co., 108 E. Bay St., Savannah **$50,000-$100,000.**

†**Illinois**—U. S. Eng., Courthouse & Customhouse, St. Louis, Mo., concrete sewer, Madison Co., to Stiers Bros. Constr. 2944 Magazine St., St. Louis, Mo., **$50,000-$100,000.**

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, sewage tr. works, Rapides Parish, to Mid-State Constr. Co., Alexandria. **$100,000-$500,000.**

†**Louisiana**—U. S. Eng., foot Prytania St., New Orleans, storm water collection and disposal plant, to S. C. Campbell Constr. Co., 86 Crockett St., Shreveport, under **$50,000.**

†**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, sanitary sewers and water mains, to McDermott & Sons, 402 Houseman Bldg., Grand Rapids. Less than **$1,000,000.**

†**Mich., Warren**—Warren Twp., 2270 Van Dyke Ave., Contracts 7 and 8, sewers, to Sugden & Silver Constr. Co., Grand Blanc, **$192,-150.** Bids 7/21 FWA. CD 7/15.

†**Montana**—U. S. Eng., Administration Bldg., Fort Peck, sewage collection sys., Glacier Co., to Frank J. Haas, 512 9 St. N.W., Great Falls, under **$50,000.**

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, sewage tr. plant, Broome Co., to Binghamton Constr. Co. Inc., Marine Midland Bldg., Binghamton. Under **$50,000.**

†**Ohio**—U. S. Eng., U. S. Post Office & Courthouse, Cincinnati, manholes and sewers, Hamilton Co., to V. P. Serodino, 7 W. 74 St., Cincinnati. Under **$50,000.**

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, sewage tr. plant, Mayese Co., to R. H. Dobson, Omaha, Neb. **$50,000-$100,000.**

†**Pennsylvania**—U. S. Eng., Standard Bldg., Baltimore, Md., sanitary sewer, Cumberland Co., to Donald B. Stabler, Harrisburg, under **$50,000.**

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, sewage tr. plant, to Higgins & Gaines, Columbia, **$100,000-$500,000;** sanitary sewerage sys., to C. Y. Thomason Co., Greenwood, **$50,000-$100,000** both Richland Co. Noted CD 7/28.

†**Texas**—U. S. Eng., 416 Wright Bldg., Tulsa, Okla., sewage tr. plant, to E. E. Farrow, Inc., 2808 Inwood St., Dallas, **$50,000-$100,000;** steel water storage tank, overhead, to Jack Contg. Co., Railway Exchange Bldg., Kansas City, Mo. Under **$50,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, 2 mi. monolithic concrete storm drains and headwalls, also open ditch, Spec. 42-209, to R. W. Briggs & Co. and M. B. Killian, Sunset Rd., San Antonio. Under **$50,000.** Bids 7/23. CD 7/21.

†**Texas**—U. S. Eng., San Antonio, storm sewers, Val Verde Co., to Williams & Whittle, Inc., and Williams & Broughton, Inc., both 5422 Mockingbird Lane, Dallas, **$100,000-$500,000.**

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, sewerage sys., to Superior Constr. Co., 3821 36 Ave. S.W., Seattle. **$50,000-$100,000.**

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, excavating, laying, backfilling for sewers Sauk Co., to Gjellefald & Froemming, 2927 N. Holton St., Milwaukee. **$100,000-$500,000.**

Ont., St. Catherine—Dominion Govt., Ottawa, sewage disposal plant, to H. Scholey, 217 Brock St., Toronto. Dpt. Air Defense, Ottawa, archts. Dpt. Munitions & Supply, Ottawa, engrs.

BRIDGES, GRADE CROSSINGS

PROPOSED WORK

Kansas—State Hy. Dpt., Wakeeney, rejected bids July 17, Br. 34.1, Norton o. CD 7/9.

Kansas—State Hy. Dpt., Parsons, received no bids July 3 bridge Labette Co. CD 6/23—ENR 6/25.

Kansas—State Hy. Dpt., Washington, received no bids Aug. 5, Br. No. 26.2, Br. 3.1, Br. at Sta. 42-15, all Washington Co., Br. Sta. 42-55, Republic Co. CD 7/22—ENR 7/30.

Miss., Redwood—Yazoo & Mississippi Valley R.R. Co., C. H. Mottier, ch. engr., Illinois Central R.R., 135 E. 11 Pl., Chicago, Ill., reconstructing railroad swing bridge.

Missouri—State Hy. Comn., Jefferson City, rejected bids July 13, concrete box culverts, Cooper Co., rein.-con. slab spans, Pulaski Co. CD 7/22—ENR 7/30.

N. J., Freehold—Bd. Chosen Freeholders, Monmouth Co., reconstructing Br. No. F-45, Freehold Twp., Bridge HL-66, Howell Twp.

BIDS ASKED

Bids Asked August 25

Iowa—State Hy. Comn., Ames, 3 rein.-con. box culverts extens., on U. S. 71, FN 52 and FN 320, Audubon Co., hauling, re-erecting old 20x 90 ft. pony truss and 40 ft. I beam over Soldiers River, on Sect. 13, FN-861, Monona Co. F. R. White, Ames, ch. engr.

Quebec—Deputy Minister Dpt. Pub. Wks., Quebec City, bridge over Caplan River, St. Charles de Caplan, Bonaventure Co., $30,000, over Whalen River, Cap des Rosiers, Gaspe Co., O. Desjardines, Dpt. Pub. Wks., engr.

Quebec—Deputy Minister Dpt. Pub. Wks., Quebec City, 5 span 375 ft. rein.-con. bridge over Bostonnais River, Bordeleau Bridge, $200,000. O. Desjardine, c/o owner, engr.

Bids Asked August 26

★**Ont., Sault Ste. Marie**—R. M. Smith, Dpt. Hys., Toronto, Ont., test hole borings for International Bridge over Ste. Mary River, for Provincial Govt., Toronto, and State of Michigan. $5,000,000.

Bids Asked August 28

Minnesota—State Hy. Dpt., J. T. Ellison, ch. engr., St. Paul, Bridge 5976, old 65 ft. low truss span with new approaches total length 125 ft. over North Branch Whitewater River, 9 mi. north of St. Charles; Bridge 5977, old 65 ft. low truss span with new approaches, total length 125 ft. over Middle Branch of Whitewater River, 8 mi. north of St. Charles.

New Mexico—B. G. Dwyre, engr. State Hy. Dpt., Santa Fe. 30- 25 ft. concrete, timber bridge, 0.143 mi., at Loving-Potash Mines, Eddy Co. $100,000.

Bids Asked September 1

Washington—State Hy. Dpt., Olympia, bridge over Deschutes River and bridge over tracks Weyerhaeuser Timer Co. and Chehalis Western R.R. on secondary road, Tenino to Rainerm Thurston Co. B. Bantz, state hy. dir.

Bids Asked September 2

New York—A. W. Brandt, Supt. P. Wks., State Office Bldg., Albany, reconstructing bridges Cattaraugus, Chautauqua and Jefferson Counties; constructing and reconstructing, unreinforced concrete, 3.99 mi. Jefferson Co.; constructing 2.42 mi. Orange Co.; soil cement pavement bit. surface treating, 1.55 mi. Suffolk Co.; adv. ENR 8.20.

LOW BIDDERS

Kentucky—Dpt. Hys., Frankfort, Aug. 14, bridge, Hardin Co., from Nally & Mudd, Springfield, **$106,389.** CD 8/4—ENR 8/6.

Louisiana—Dpt. Hys., Baton Rouge, Aug. 12, 0.021 mi. Bayou Blue bridge, etc., Jefferson Davis Parish, from A. A. Mutersbaugh, Lake Charles, **$35,957.** CD 8/3—ENR 8/6.

Pa., Rankin—Bd. Comrs. Allegheny Co., R. G. Woodside, controller, Pittsburgh, Aug. 11, general repairs superstructure Rankin Bridge No. 7, Proj. A-NI-7, from Carl J. Jacobsen, Empire Bldg., Pittsburgh. **$115,005.** Est. $150,000. CD 7/27—ENR 7/30.

CONTRACTS AWARDED

Iowa—State Hy. Comn., Ames, 16x16x154 ft. rein.-con. box culvert, Sect. 36, U. S. 75, Crescent Twp., to C. Roy Yegg, Boone, **$31,484.** Bids Aug. 11, awarded Aug. 11. CD 7/31—ENR 8/6.

STREETS AND ROADS

BIDS ASKED

Bids Asked August 25

Ill., Chicago—Dpt. P. Wks., O. E. Hewitt, comr., concrete paving W. Cermak Rd. from S. Ashland Ave. to South Morgan St. Plans deposit $10.

Iowa—State Hy. Comn., Ames, grading 4.515 mi. FM-63, Mitchell Co., gravel surfacing 3 mi. FSN-819, Boone Co.; maintenance resurfacing 6,005 cu. yd. M 6189, Benton Co., 5910 cu. yd. M 6181, Buchanan Co., 400 cu. yd. M 5222, Henry Co., 1840 cu. yd. M 5223, Lee Co., 870 cu. yd. Louisa Co., 4,845 cu. yd. M 5225, Lucas Co., 9,500 cu. yd. M 3258, Plymouth Co., 3,915 cu. yd. M 3236, Plymouth-Woodbury Counties, 11,230 cu. yd. M 1239, Poweshiek Co., 2,800 cu. yd. M 5226, Wayne Co.; reconstructing concrete pavement on 660 sq. yd. M 6184, Linn Co. F. R. White, Ames, ch. engr.

Pennsylvania—At office I. L. Hughes, secy. Hys., Harrisburg, cement concrete paving 950 ft. Legislative Route 439, Sect. 5, Moosic Boro., Lackawanna Co. Plans deposit construction drawings $2.50, cross section $2.50.

Virginia—State Dpt. Hys., Richmond, macadam surface treating 2 mi. Route 60, Alleghany Co.

Ill., Monticello—Piatt Co., concrete paving 0.2419 mi. MW-MFT; 0.7188 mi. JW-MFT; 0.2662 mi. QW-15d. G. H. Baker, Centennial Bldg., Springfield, state engr. co. roads and city streets.

Bids Asked August 27

Oregon—State Hy. Comn., Pub. Serv. Bldg., Portland, rock production Baker-Homestead

STREETS, etc. (Bids Asked, Cont'd.)

Hy., at Richland, Baker Co., Central Ore. Hy., at Buchanan, Harney Co., Dalles-California and Williamette Hys., at Walker Mountain, Klamath Co., Williamette Hy., at Salt Lake Falls and O'Dell Butte, Klamath and Lane Counties, Oregon Trail and Central Oregon Hys., at Dead Ox Flat-Cairo Jct., Malheur Co., Pendleton John Day Hy., between Nye Jct. and Grant Co. line, Umatilla Co., on Wallowa Lake Hy., between Rock Creek and Joseph, Wallowa Co.; flight strip on Lakeview-Burns Hy., Lane Co., and on I.O.N. secondary Hy., Malheur Co.

Bids Asked August 28

New Mexico—B. G. Dwyre, state hy. engr., Santa Fe, grading, draining, three 21 ft. span treated timber bridge 5.256 mi. AI-FAS 85 B(1), Loving-Potash Mines, Eddy Co. $100,000.

Bids Asked August 31

New Jersey—S. Miller, Jr., comr. State Hy. Dpt., Trenton, 4.488 mi. Fort Dix Access Rd., Sect. 1, Burlington Co., FAP DA-WR-1(2); adv. ENR 8/20.

Bids Asked September 1

Washington—State Hy. Dpt., Olympia, clearing, grading, paving 5.9 mi. State Rd. 2, Spokane Co. B. Bantz, Olympia, dir.

Indiana—State Hy. Comn., S. G. Hadden, chn., Indianapolis, concrete paving, resurfacing 5.625 mi. State Rd. 24, Allen Co.; 2.802 mi. State Rd. 20, from Porter to east of State Rd. 40; 3.267 mi. State Rd. 20 from West of to east of Porter, both Porter Co.; 1.933 mi. Riley Rd. and Canal St. in East Chicago, Lake Co.; concrete paving 5.971 mi. State Rd. 40, Hancock and Henry Counties; 1.23 mi. 12 Ave. in Evansville, Vanderburg Co.; compacted aggregate surfacing 5.841 mi. State Rd. 39, Pulaski Co. R. Bower, c/o owner, ch. engr.

Bids Asked September 2

Calif., Los Angeles—Bd. P. Wks., 19,320 tons asphaltic concrete, 86,395 sq. ft. concrete paving, 14,780 lin. ft. concrete curbing, sewer, storm drain work, Olympic Blvd. from Park View to Western Ave. L. Aldrich, City Hall, engr.

Bids Asked September 3

Delaware—State Hy. Dpt., Dover, F. V. du Pont, chn., Road, New Castle Co.: Beech St., Maryland Ave. to Marsh Rd., Madison St. and Marsh Rd., front St. to plant, new road, Beech St. to plant, Contr. 820; adv. ENR Aug. 20.

Bids Asked

Kansas—State Hy. Dpt., Wakeeney, rejected bids July 17, imprv. 13.252 mi. Phillips Co. R. C. Keeling, Topeka, engr. CD 7/9.

Kansas—State Hy. Dpt., Parsons, received no bids July 3, imprv. 0.505 mi., 0.504 mi. and 0.997 mi. all Labette Co. R. C. Keeling, Topeka, engr. CD 6/23—ENR 6/25.

Mississippi—State Hy. Comn., Jackson, received no bids Aug. 11, imprv. 5.321 mi. Hancock Co. $300,000. R. A. Harris, Jackson, engr. CD 7/31.

Missouri—State Hy. Comn., Jefferson City, rejected bids July 24, imprv. roads, Johnson Co. CD 8/5—ENR 8/13, under LB.

Missouri—State Hy. Comn., Jefferson City, rejected bids July 31, imprv. 1.088 mi., 1.038 mi. and 1.735 mi., all Route 66, Pulaski Co.; 9.717 mi. Phelps Co. CD 7/22 and 8/5—ENR 7/30 and 8/13, under LB.

Nebraska—State Dpt. Roads & Irrigation, Lincoln, rejected bids Aug. 6, Patrol 51005. CD 8/3—ENR 8/10.

Nevada—State Dpt. Hys., Carson City, rejected bids Aug. 7, imprv. 5.61 mi. Clark Co. CD 8/12, under LB.

Tex., Houston—Harris Co., c/o Judge, rejected bids July 12, paving Bissonnet St. CD 7/24—ENR 7/30.

LOW BIDDERS

★**Illinois**—State Dpt. Pub. Wks. & Bldgs., Div. Hys., Springfield, Aug. 7, from McCarthy Improvement Co., 601-3 Kahl Bldg., Davenport, Ia., imprv. Combination No. 2, S.B.I. Route 150, Sects. 130 R, 131 R and DG-2, Jackson Co., $569,776, 1.48 mi. Sects. 131 R and 6-G-2, S.B.I. Route 150 and F.A.S. Route 915, Dist. 9, Jackson Co., $177,060, 3.4 mi. Sect. 130 R, S.B.I. Route 150, Dist. 9, Jackson Co., $392,516*** from Keeley Bros., 4211 State St., East St. Louis, 9,345 sq yd. St. Clair, Monroe and Randolph Counties, $130,100, 1.74 mi. St. Clair Co., $203,515*** from Walker Constr. Co., 421 E. 21 St., Mattoon, 0.42 mi. Christian Co., $25,737*** from Zimmerly Constr. Co., 321 E. Edgar St., Paris, 4624 sq. yd. Hamilton Co., $97,823*** from West Counties Constr. Co., 105 S. York St., Elmhurst, 3 mi. Will Co., $89,621*** from Maurice Hoeffken & Co., 222 W. B St., Belleville, 2.06 mi. St. Clair Co., $291,300*** from J. R. Burner, Oblong, 1.11 mi. Lawrence Co., $32,340*** from J. M. Driscoll Co., Decatur, 1.08 mi. and 2.48 mi. Macon and Christian Counties, $85,402 and $163,128 respectively. Received no bids Aug. 7, 544 sq. yd. Franklin and Williamson Counties, Combination No. 1, St. Clair Co., S.B.I. Route 13, Dist. 8, Patch No. 1, St. Clair, Randolph and Washington Counties, 2.06 mi. La Salle Co. CD 8/4.

Ill., Chicago—Dpt. Pub. Wks., Aug. 12, paving N. Avondale Ave., from Leininger Constr. Co., 30 N. La Salle St., $29,299. CD 8/5.

Iowa — State Hy. Comn., Ames, Aug. 11, imprv. 3.187 mi. DA-WI(1) from McCarthy Improvement Co., 601 Kahl Bldg., Davenport, $240,960. Received no bids 23.3 mi. Buchanan Co. Rejected bids 21.6 mi. Benton Co., 12.3 mi. Davis Co. 8 mi. Iowa Co. CD 7/31—ENR 8/6.

Minnesota—State Hy. Dpt., St. Paul, July 31, imprv. 1.5 mi. S.P. 2752-13 TH 55-188, S.P. 2735-24, TH 10-130, from J. W. Craig, 1814 California St. N.E., Minneapolis, $45,008. CD 7/14—ENR 7/16.

Nevada—State Dpt. Hys., Carson City, Aug. 7, imprv. 7 mi. Washoe Co., from Union Paving Co., 212 Babcock Bldg., San Francisco, Calif., $115,170. CD 7/30.

Ohio — State Hy. Dpt., Columbus, Aug. 4, imprv. 1.144 mi., Stark Co., from Garaux Bros. Co., 415 9 St., S.W., Canton, $158,858. CD 7/23—ENR 7/30.

South Dakota—State Hy. Comn., Pierre, Aug. 11, imprv. 20.278 mi. Dewey Co., from Ed. Chase, Wentworth, $25,753; 28.039 mi. Meade Co., from Martin Joyce, Brandon, $39,462. CD 7/30—ENR 8/6.

†**Texas**—U. S. Eng., Fort Sam Houston, Access Road S-T Spec. 42-220, Bell Co., from Ruby-Wallace & Bowden, 813 Brown Bldg., Austin. $50,000-$100,000.

Wisconsin—State Hy. Comn., Madison, Aug. 14, imprv. 7.098 mi. Eau Claire Co., from L. G. Arnold, Inc., Eau Claire, $306,939. CD 7/30—ENR 8/6.

CONTRACTS AWARDED

†**Delaware**—U. S. Eng., 6 and Walnut Sts., Phila., Pa., paving, drainage, New Castle Co., to Standard Bitulithic Co., 50 Church St., New York, N. Y. $100,000-$500,000.

†**Florida**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., roads, Santa Rosa Co., to Noonan Constr. Co., 1001 E. Gregory St., Pensacola. Under $50,000.

†**Florida**—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, roads, Orange Co., to W. H. Armston, Inc., Dunedin. Under $50,000.

†**Florida**—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, roads, Marion Co., to L. J. Cobb Constr. Co., Dunellon. Under $50,000.

†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, grading, paving roads, Pasco Co., to J. E. Ballenger Constr. Co., Lakeland, under $50,000.

†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, clearing, grubbing, grading, paving Lake Co., to J. D. Manly, Leesburg, under $50,000.

†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah, clearing, grubbing, grading, Chatham Co., to E. H. Hines, Greenwood, S. C., and Robert Lee, Manning, S. C., $100,000-$500,000.

†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah Bldg., Savannah, clearing, grubbing, etc., Chatham Co., to Nichols Contg., 1190 Caroline, N. E. Atlanta, $100,000-$500,000.

Idaho—Dpt. P. Wks., Boise, imprv. 19.161 mi., Butte Co., to Morrison-Knudsen Co., Inc., 319 Bway., Boise, $37,299. Bids 8/14.

Ill., Aledo—Mercer Co., constructing road, Eliza Twp., to Collinson Bros., Moline, $29,600.

Ill., Des Plaines—E. J. Friedrich, city clk., concrete paving streets, to Milburn Bros., Mt. Prospect, $28,199.

★†**Indiana**—U. S. Eng., 612 Federal Bldg., Louisville, Ky., clearing, grading, paving, Bartholomew Co., to Kramp Constr. Co., and Kock Constr. Co., Milwaukee, Wis., $1,000,000-$5,000,000.

†**Kentucky**—U. S. Eng., U. S. Post Office & Courthouse, Cincinnati, O., surfacing roads, Henderson Co., to Lehman-Roberts Co., Lexington. Under $50,000.

†**Maine**—U. S. Eng., Park Square Bldg., Boston, Mass., resurfacing parking areas and taxistrips, Aroostook Co., to Warren Bros. Roads Co., 38 Memorial Dr., Cambridge, Mass., $100,000-$500,000.

†**Maryland**—U. S. Eng., Standard Oil Bldg., Baltimore, road, walks, parking areas, Harford County, to C. J. Langenfelder & Son, 908 S. Wolfe St., Baltimore. Under $50,000.

†**Massachusetts**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., roads to Kelleher Corp., 35 Walnut St., Turners Falls. Under $50,000. Bids 8/10. CD 8/5.

Minnesota—State Hy. Dpt., St. Paul, imprv. 5.2 mi. S.P. 5302-10, TH 16-9, 5303-11, TH 16-9, 5305-14, TH 60-85 and 5306-12 TH 60-85, to Price & Waggoner, Slayton, $29,164. Bids 7/31. CD 7/14—ENR 7/16.

†**Mississippi**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., grading, paving, drainage of yards, streets and parking areas, Jones Co. to Chandler Brothers, Inc., Virgilina, Va. $100,000-$500,000.

Mississippi — State Hy. Comn., Jackson, imprv. 3.827 mi. Washington Co., to Burdine Constr. Co., Shaw, $310,469. Bids 8/11, awarded 8/12.

†**New Jersey**—U. S. Eng., Phila., Pa., roads, to Jose... 872 Bway., Newark.

New Mexico—B. G. Dwyre, Santa Fe., imprv. 12.858 mi. ... to Skousan Bros., Albuquerque, $162,382. (**Correction:**—contract price.) CD 8/11—ENR 8/13.

N. Y., Jamestown—Dpt. P... paving, own forces. $25,000. ... City Hall, engr.

†**North Carolina**—U. S. Eng., ... crete paving, drainage, Meck... W. F. Bowe, Jr., Augusta, Ga. ... 000.

Ohio—State Hy. Dpt., Columbus, ... mi. Lucas Co., to S. E. Johnson Co., ... nal Bldg., Toledo, $100,942, est. ... mi. Stark Co., to Allied Corp., ... Cleveland, $73,413, est. $73,420. ... Received no bids, imprv. Lorain, Medina, Adams Counties. CD 7/23—ENR ...

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, roads, Woods Co., to Geiger & Rutherford, Leavenworth, Kan. $50,000-$100,000.

†**Rhode Island**—U. S. Eng., 819 Industrial Trust Bldg., Providence, imprv. road, to Callan Constr. Co., Gray St., Bristol. Est. $25,000.

S. C., Charleston—Removal street car rails, replacing pavement "trench and sink" method depth 20 ft., **WPA. $81,000.**

South Dakota — State Hy. Comn., Pierre, imprv. 42.483 mi. McPherson Co., to Central Constr. Co., 230 S. 2S, Sioux Falls. $31,052. Bids 8/11. CD 8/14., under L.B.

†**South Dakota**—U. S. Eng., 1706 Jackson St., Omaha, Neb., concrete paving Minnehaha Co., to W. P. Tobin and C. Roweth, both Kansas City, Mo. $100,000-$500,000.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, grading, paving, drainage, Cameron Co., to R. W. Briggs & Co. and E. B. Darby, Sunset Rd., San Antonio. $100,000-$500,000.

†**Texas**—U. S. Eng., Fort Sam Houston, roads, asphalt paving, concrete sidewalks, Spec. 42-235, to A. L. Bussey, Brownwood, $50,000-$100,000. CD 8/13, underLB—ENR 8/1, under BA.

★†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, grading, paving, drainage, Victoria Co., to Cage Bros. and H. E. Williams, Bishop. $500,000-$1,000,000.

†**Texas**—U. S. Eng., 231 W. Main St., Denison, roads, Lamar Co., to H. Newton, Graham. Under $50,000.

†**Texas**—U. S. Eng., San Antonio, roads, sidewalks, Brown Co., to A. L. Bucy, Brownwood. Under $50,000.

†**Texas**—U. S. Eng., Fort Sam Houston, asphalt paving, Hays Co., to J. P. Nash, Nash Bldg., Austin. $50,000-$100,000.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, paving, drainage, Harris Co., to P. F. Eller Co., 227 N. Lenox St., Houston. $100,000-$500,000.

Texas—U. S. Eng., 25 St. and Ave. F., Galveston, clearing, grubbing, grading roads and streets, Limestone Co., to Ballantyne Eng. Co., Houston. $50,000-$100,000. CD 8/13.

†**Texas**—U. S. Eng., San Antonio, roads, Bell Co., to Southern States Constr. Co., San Jacinto Natl. Bank Bldg., Houston, under $50,000.

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, grading, drainage, Spokane Co., to Ericksen-Goulter, Spokane, under $50,000.

Washington—State Hy. Dpt., Olympia, imprv. 1.9 mi. Franklin Co., to G. G. Ensminger, Walla Walla. $32,666. Bids 8/11 CD 8/3.

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, grading, constructing roads, to A. W. Johnson and Goetz & Brennan, 208 E. Pacific St., Seattle. $50,000-$100,000.

†**Wisconsin** — U. S. Eng., 520 Merchandise Mart, Chicago, Ill., grading, Monroe Co., to J. Rasmussen Sons Co., foot of 7 St., Oshkosh. $100,000-$500,000.

★**British Columbia**—Dominion Govt., Ottawa, Ont., 20 ft. hy. between Prince Rupert and Cedarvale, to E. J. Ryan Constr. Co., Ltd., 445 Granville St., Vancouver, B. C., Tomlinson Constr. Co., Ltd., 21 E. King St., Toronto, Ont., Standard Paving Ltd., Harbor Comm. Bldg., Toronto, Ont., McNamara Constr. Co., Ltd., 12 Industrial St., Leaside, Ont., Defferin Paving & Crushed Stone Ltd., Fleet St., W., Toronto, Ont. and General Constr. Co., Ltd., Granville, Vancouver, B.C. Est. $5,500,000. Dpt. Mines & Resources, Ottawa, Ont., engrs.

N. B., Moncton—Dpt. Natl. Defense, Ottawa, Ont., new roads, resurfacing roads at Repair Depot, to Rayner Constr. Co., Ltd., Moncton. $30,000.

Ont., Chatham—Kent Co., seal coating 28 mi. pavement, to Stirling Constr. Co., 2494 Sandwich St. E., Windsor. Est. $30,000. F. D. Colby, Harrison Hall, engr.

Ont., Fort William—Paving various streets, to Warren Bituminous Paving Co., Ltd., 437 Fleet St. W., Toronto, $53,155.

EARTHWORK—WATERWAYS

PROPOSED WORK

Montana—State Water Conseravtion Bd., S. C. Ford, chn., Helena, received no bids July 31, rock filled timber faced dam across Big Creek. Deferred for duration. CD 7/28.

★**†South Dakota**—Bureau Reclamation, Customhouse, Denver, Colo., Deerfield Dam of Rapid Valley irrigation project. $500,000. H. V. Hubbell, Rapid City, engr. in charge. CD 7/8—ENR 7/16.

South Dakota—State Game & Fish Comn., Pierre, 9 artesian wells, laying piping to maintain water level of Red Lake, Chamberlain. $15,000.

†Texas—U. S. Eng., Fort Sam Houston, soon takes bids, grading, drainage, incl. excav., embankment, compacted concrete pipe, etc., Spec. 42-264. Plans $25 deposit.

Tex., Velasco—City, E. F. Roeller, mayor, levees and drainage facilities. $55,000. Applied to FWA. Garrett Eng. Co., 3504 Audubon St., Houston, engrs.

Que., Cowansville—Municipality c/o A. C. Tanner, clk., reconstructing dam.

BIDS ASKED

Bids Asked August 26

Illinois—Dpt. Pub. Wks. & Bldgs., Div. Waterways, 188 W. Randolph St., Chicago, dredging, etc. Petite Lake and Pistake Lakes, in Fox Lake, also deepening and widening channel connecting Bluff Lake with Lake Marie in Fox Chain of Lakes, Lake Co.

Bids Asked August 28

†California—Dpt. Interior, Bureau Reclamation, Denver, Colo., four gate frames for 50x50 ft. spillway, regulating gates, Keswick Dam, Kennett Div. Central Valley Proj., California, Spec. 1663-D. Advanced bid date. CD 8/13, under BA.

Bids Asked August 31

†Tennessee—Tennessee Valley Auth., Knoxville, dredging in Tennessee River below Fort Loudoun Dam; adv. ENR 8/20.

CONTRACTS AWARDED

†California—U. S. Eng., 74 New Montgomery St., San Francisco, fill, Contra Costa Co., to Charles L. Harney, 443 Call Bldg., San Francisco. Under **$50,000.** Awarded 8/6.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, dry fill, Alameda Co., to Macco Constr. Co., Clearwater. **$50,000-$100,000.**

†Connecticut—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., dredging Connecticut Waterway, to American Hydraulic Dredging Co., 86 River St., Quincy, Mass. Est. **$25,000.** Bids 7/14. CD 7/3—ENR 7/9.

†Georgia—U. S. Eng., Postoffice Bldg., Savannah, drainage facilities, Chatham Co., to S. J. Alexander & Scott Constr. Co., Thomasville. **$100,000-$500,000.**

†Georgia—U. S. Eng., 494 Spring St. N.W., Atlanta, excav., clearing, grubbing, drainage, Cobb Co., to W. L. Florence, Powder Springs. **$100,000-$500,000.**

†Louisiana—U. S. Eng., foot Prytania St., New Orleans, dredging Jefferson and St. Charles Parishes, to Shell Producers Co., 115 S. Water St., Tampa, under **$50,000.**

★**†Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, retaining sea wall, to L. A. Wells Constr. Co., 1121 Schofield Bldg., Cleveland, O., less than **$1,000,000.**

★**†Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, removing, disposing material other than ledge rock, to Price Bros. Co., P. O. Box 285, Dayton, O. Less than **$1,000,000.**

†Mississippi—U. S. Eng., U. S. Post Office & Court House, Vicksburg, clearing portion Arkabutla Reservoir on Hickahala Creek, Tate Co., to Patton-Tully Transportation Co., N. 2 St., Memphis, Tenn., **$103,700.** Bids 6/22.

†New York—U. S. Eng., 120 Wall St., New York, N. Y., dredging, Suffolk Co., to Long Island Dredging Corp., 147-28 Jamaica Ave., Jamaica. Under **$50,000.**

†North Carolina—U. S. Eng., 308 Customhouse, Wilmington, dredging, Carteret Co., to C. Walker Hodges Dredging Co., New Bern. Under **$50,000.**

O., Cleveland—City, F. Foy, purch agt., stone bulkhead, 1600 ft. long, 20 ft. thick, to Great Lakes Dredge & Dock Co., Williamson Bldg. **$176,010.** J. M. Heffelfinger, 518 City Hall, engr. CD 7/6—ENR 7/9.

★**†Texas**—U. S. Eng., 231 W. Main St., Denison, drainage and grading, Hunt Co., to Gray & Gravelle & Smith Bros., Hightower Bldg., Oklahoma City, Okla. **$500,000-$1,000,000.**

†Wisconsin—U. S. Eng., 408 Federal Bldg., Milwaukee, finishing and placing earth fill, Sauk Co., to Central States Constr. Co., Sauk City. **$100,000-$500,000.**

Alta., Seven Persons—Dominion Govt., Ottawa, Ont., dam construction, to F. R. Gibb Ltd., 320 Broder Bldg., Regina, Sask., Prairie Rehabilitation Admin., 811 McCallum Hill Bldg., Regina, Sask., engrs.

Sask., Herbert—Prairie Farm Rehabilitation Bd., 910 McCallum Hill Bldg., Regina, drainage canal, Twp. 16, Range 9 and Twp. 17, Range 10, to Gibbs Bros., Lumsden. **$20,227.** Bids 8/4. CD 7/31.

UNCLASSIFIED

PROPOSED WORK

Arkansas—TRANSMISSION LINES—Arkansas Power & Light Co., Simmons Natl. Bldg., Pine Bluff, 35 mi. transmission lines, etc. $80,000.

†Florida—BLACKOUT FACILITIES—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, engineer-architect services by R. L. Weed, Miami, blackout facilities, Dade Co.

†Florida — IMPROVEMENTS — U. S. Eng., Courthouse & Postoffice, Jacksonville, architect-engineer services by Bail, Horton & Associates, Jacksonville, electric, water, sewerage sys., taxiways, hardstandings, Highlands Co.

★**†Indiana**—IMPROVEMENTS—U. S. Eng., Federal Bldg., Louisville, Ky., improvements, 90 bldgs., etc. Over **$1,000,000.** Allied Architects & Engineers, 909 Architects & Builders Bldg., Indianapolis, archts.

★**Ia., Burlington** — AIRPORT — Enlarging, imprv. airport. $500,000. Howard R. Green Co., 417 1 Ave. S.E., Cedar Rapids, engrs. CD 9/26/40—ENR 9/26/40.

Kan., Newton—AIRPORT—Approved **$45,000** bonds, imprv. airport. CD 7/9—ENR 7/17.

★**†Kansas**—IMPROVEMENTS—U. S. Eng., 10 E. 17 St., Kansas City, Mo., improvements. $3,000,000-$5,000,000.

★**†La., Houma**—BASE—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., lighter-than-air base.

Mass., Hingham — SHIPYARD BOILER HOUSE—Bethleham-Hingham Shipyard, Inc., E. Howard St., Quincy, soon lets contract brick, boiler compressor house.

★**Minn., Winona** — AIRPORT — R. T. Patneaude, Chamber of Commerce Airport Com., Winona, surveys airport at Prairie Island site. Est. $1,000,000. U. S. Govt. to build if site is approved. E. E. Chadwick, city engr.

†Mississippi—IMPROVEMENTS—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, impvts.

★**†Missouri**—IMPROVEMENTS—U. S. Eng., P. O. Box 97, Memphis, Tenn., bids soon, imprvs. $5,000,000. Russell & Axon, 4903 Delmar Blvd., St. Louis, engrs. CD 8/5—ENR 8/13.

Neb., Lincoln—AIRPORT BUILDING—City, T. H. Berg, clk., adminis. bldg. at municipal airport. $50,000. Will apply to FWA.

Okla., McAlester—POWER LINE—Public Service Co. of Oklahoma, 600 S. Main St., Tulsa, addnl. 10 mi. power line. $40,000.

†South Dakota—RUNWAYS, etc.—U. S. Eng., 1709 Jackson St., Omaha, Neb., engineer-architect services by W. J. Dixon and C. A. Trimmer, Mitchell runways, taxiways, hardstandings, Davison Co.

†Tennessee—IMPROVEMENTS—U. S. Eng., P. O. Box 97, Memphis, improvements.

†Texas—ATHLETIC FIELD—U. S. Eng., Camp Swift, Central athletic field, incl. baseball diamond, football field, etc. $100,000.

†Texas—STORAGE TANKS—U. S. Eng., Fort Sam Houston, indefinitely postponed bids to have been opened July 28, fuel storage tanks. CD 7/24—ENR 7/16.

†Texas—UTILITIES—U. S. Eng., Fort Sam Houston, underground utilities, in l. exten. to water distr. sys., sanitary sewerage, addn. to gas distr. sys., installing motor fuel storage and dispensing sys., Spec. 42-250. Plans $25 deposit.

★**†Tex., Houston**—AIRPORT—City, developing municipal airport, concrete runways, extending existing runways, aprons, addnl. bldgs., CAA standardization center. Over $2,000,000. CAA.

Vt., Burlington—AIRPORT—Northeast Airlines, Inc., 137 St. Paul St., bids soon hangar, office and shops, coal pocket and machine shop, 1 story, 120x180 ft., Municipal airport. $50,000. Freeman French & Freeman, 138 Church St., archts. CD 7/29—ENR 8/6.

†Washington — IMPROVEMENTS — U. S. Eng., Textile Tower, Seattle, improvements.

★**†Wash., Seattle**—PIER—Port of Seattle, Bell St. Terminal, double pier near foot Spokane St. $2,800,000. $340,000 FWA grant approved. Col. W. C. Bichford, c/o owner, engr.

Wis., West Allis (br. Milwaukee) — CAR LINE—The Transport Co., 940 W. St. Paul Ave., 0.6 mi. street car line. $37,000.

★**Ontario** — LIGNITE DEVELOPMENT — Provincial Govt., Dpt. Mines, Toronto, preliminary plans developing lignite deposits, plants at various locations, Northern Ontario. $1,000,000.

Que., Riviere de Loup—DAM—Municipality, rejected bids July 28, reconstructing Morin Lake Dam. $350,000. New bids. Quebec Streams Com., 100 E. Notre Dame St., Montreal, engrs. CD 7/23.

BIDS ASKED

Bids Asked August 31

†N. Y., Westhampton—GRADING, etc.—U. S. Eng., 120 Wall St., New York, grading, drainage, paving, etc., Suffolk County Airport, Westhampton; adv. ENR 8/20. CD 6/3—ENR 6/11.

†New Mexico — STEAM DISTRIBUTION SYSTEM—U. S. Eng., Albuquerque, installing steam distr. sys. Est. $25,000 or more. Plans $25 deposit.

†Texas—FUELING SYSTEMS—U. S. Eng., Federal Bldg., Galveston, a.c. gasoline and oils and fueling systems, incl. steel tanks, piping, concrete pits, etc. Under $50,000. Plans $25 deposit.

†Texas—FUELING SYSTEMS, etc.—U. S. Eng., Federal Bldg., Galveston, a.c. gasoline, oil and fueling systems, incl. steel tanks, piping, concrete pits, etc. Under $50,000. Plans $25 deposit.

†Texas—FUELING SYSTEMS—U. S. Eng., Federal Bldg., Galveston, a.c. gasoline, oil and fueling systems, incl. steel tanks, piping, concrete pits, etc. Under $50,000. Plans $25 deposit.

Bids Asked

†Arizona—RAILROAD SPUR—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., railroad spur exten. and crossover, No. 509-43-152.

†Idaho — IMPROVEMENTS — U. S. Eng., Pittock Blk., Portland, Ore., imprvs., No. 698-158.

†Missouri—FACILITIES—U. S. Eng., Fort Leonard Wood, facilities.

†Washington — OIL SYSTEM, etc.—U. S. Eng., Spokane, A.C. oil and lubricating sys., and railroad exten. Neg. 95.

LOW BIDDERS

†California — GASOLINE SYSTEM — U. S. Eng., Wright Bldg., Sacramento, Aug. 10, a.c. gasoline fuel sys., Spec. 144, mechanical, from Wonderly Constr. Co., 2694 Lime Ave., Long Beach. Under **$50,000.** CD 8/3.

†California—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Aug. 10, imprvs., No. 168, San Bernardino Co., from C. C. Bong, 2324 Baldwin Ave., Temple City. Less than **$100,000.**

†California—UTILITIES—U. S. Eng., Wright Bldg., Sacramento, Aug. 8, utilities, Spec. 130, from F. M. Crane, 180 Santa Ana Ave., San Francisco. Under **$50,000.**

†Louisiana—IMPROVEMENTS—U. S. Eng., foot Prytania St., New Orleans, imprvs., Inv. 43-44, from E. W. Cook Co., 515 E. Capitol St., Jackson.

†Louisiana—IMPROVEMENTS—U. S. Eng., foot Prytania St., New Orleans, Aug. 11, imprvs., Inv. 43-52, from Pierson Constr. Co., Baton Rouge.

†Maryland — TOPSOILING, etc. — Public Bldgs. Admin., North Interior Bldg., Wash., D. C., Aug. 12, topsoil seeding, sodding, etc., from New England Tree Expert Co., Inc., 539 Smithfield Ave., Pawtucket. **$45,352.** CD 8/3—ENR 8/6.

★**†Massachusetts**—IMPROVEMENTS—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., improvements, 693-43-3, incl. grading, drainage, paving, A-1, from L. A. Bryne, Main St., Dennisport, **$100,000-$500,000**; B-1, from David Nassif Co., 20 Providence St., Boston, **$100,000-$200,000*****B-2, from P. J. Keating Co., 11 Byron St., Worcester, **$100,000-$500,000.** CD 8/10.

†Nevada—LIGHTING SYSTEM—U. S. Eng., Wright Bldg., Sacramento, Calif., Aug. 7, night lighting sys., Spec. 137, from Reliable Elevator Wks., 619 California St., Sacramento, Calif., **$28,177.** Est. $29,310. CD 7/30.

CONTRACTS AWARDED

†Alabama — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 306 U. S. Courthouse, Nashville, Tenn., electrical distr. sys., Lawrence Co., to Rogers Electric Co., 4613 16 Ave. N., Birmingham. **$50,000-$100,000.** Noted CD 7/8.

†Alabama—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., U. S. Courthouse and Customhouse, Mobile, electrical distr. sys., Jefferson Co., to Bethune Electric Co., 315 S. 20 St., Birmingham, under **$50,000.**

†Alabama — SPRIGGING and SEEDING — U. S. Eng., Courthouse & Customhouse, Mobile, sprigging and seeding, Lee Co., to J. H. Lamar, Tuskegee, under **$50,000.**

†Alabama—TARGET BUTTS—U. S. Eng., Courthouse & Customhouse, Mobile, target butts, Dallas Co., to Cooper Constr. Co., Selma, under **$50,000.**

†Arizona — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., electrical distr. sys., Mohave Co., to Palmer & Berger Constr. Corp., Phoenix, **$100,000-$500,000.**

†Arizona—FUELING and STORAGE SYSTEMS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., gasoline fueling and storage

UNCLASSIFIED (Contracts Awarded, Cont'd.)

systems. Maricopa Co., to L. A. Lefevre, North Hollywood, Calif. Under **$50,000.** Bids 8/6. CD 8/5.

†Arizona—GASOLINE FUELING SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., gasoline fueling sys., Pima Co., to Flotation Systems, Inc., 4031 Goodwin Ave., Los Angeles, Calif., under **$50,000.**

★**†Arizona**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., improvements, to Del. E. Webb, 1633 N. Jefferson St., Phoenix, over **$5,000,000.**

†Arkansas — FENCING — U. S. Eng., Gay Bldg., Little Rock, fencing, Arkansas Co., to Chain Link Fence Co., 1629 W. 31 St., Chicago, Ill., under **$50,000.**

†Arkansas—FUELING SYSTEM—U. S. Eng., P. O. Box 97, Memphis, Tenn., gasoline fueling sys., Lawrence Co., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y. **$50,000-$100,000.**

★**†Arkansas**—IMPROVEMENTS—U. S. Eng., 300 Bway., Little Rock, imprvs., to Harmon Constr. Co., 1138 N.W. 4 St., Oklahoma City, Okla. **$1,000,000-$5,000,000.**

†Arkansas — SPRINKLER SYSTEM — U. S. Eng., Gay Bldg., Little Rock, automatic sprinkler sys., Jackson Co., to Crowder Bros., 2212 Cole St., St. Louis, Mo., under **$50,000.**

†Arkansas—STORAGE AREA—U. S. Eng., 300 Bway., Little Rock, motor storage area, Franklin and Sebastian Counties, to A. J. Spicer, 7701 N. Western St., Oklahoma City, Okla. Under **$50,000.**

†California—CATWALKS, etc.—U. S. Eng., 751 S. Figueroa St., Los Angeles, catwalks, ladders and addns. door light locks, Los Angeles Co., to H. Auerbach, Los Angeles. Under **$50,000.**

†California—CONSTRUCTION—U. S. Eng., 751 S. Figueroa St., Los Angeles, construction, Los Angeles Co., to R. E. Miles, Los Angeles. Under **$50,000.**

†California—CONSTRUCTION—U. S. Eng., 751 S. Figueroa St., Los Angeles, construction, Los Angeles Co., to Pacific Crane & Rigging Inc., 6800 S. Alameda St., Los Angeles, **$50,000-$100,000.**

†California — DISTRIBUTION SYSTEM — U. S. Eng., 751 S. Figueroa St., Los Angeles, electrical distr. sys., Riverside Co., to Shamel, Jones & Sayre, 1515 W. Jefferson St., Los Angeles. **$50,000-$100,000.**

†California — ELECTRICAL FACILITIES—U. S. Eng., 751 S. Figueroa St., Los Angeles, electrical facilities, Los Angeles Co., to Southern California Edison Co., 601 W. 5 St., Los Angeles, under **$50,000.**

†California—IMPROVEMENTS—U. S. Engr., 74 New Montgomery St., San Francisco, imprvts., to Paul C. Gibson, 372 Velarde St. Mountain View, under **$1,000,000.** Negotiated Aug. 11.

†California—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, supplemental contract imprvs., to R. J. Daum, 6803 W. Blvd., Inglewood. Over **$100,000.**

†California—RAILROAD FILL.—U. S. Eng., 74 New Montgomery St., San Francisco, railroad fill, Alameda Co., to Macco Constr. Co., Clearwater. Under **$50,000.**

†California—TAXIWAYS, etc.—U. S. Eng., Wright Bldg., Sacramento, taxiways, runways, aprons, hardstandings, Sacramento Co., to J. R. Reeves, 12 & Amer. River, Sacramento. **$50,000-$100,000.**

†Colorado—STEAM HEATING PLANT, etc.—U. S. Eng., c/o Postmaster, Denver, steam heating plant and distr. lines, Denver Co., to Alfred C. Larsen, 2471 Arapahoe St., Denver, under **$50,000.**

Connecticut — POWER LINE — Connecticut Light & Power Co., 36 Pearl St., Hartford, tieup of high tension power lines of Connecticut Light & Power Co. and Connecticut Power Co., near New Britain. Owner builds. **$35,000.**

★**Conn., Groton (br. New London)**—AIRPORT—State Airport Comn., State Office Bldg., Hartford, exten. runways from 2,400 to 4,000 ft., grading, etc., Trumbull Field airport, to Carlo Bianchi & Co., Inc., 24 Union Ave., Framingham, Mass., **$899,153.** Est. $685,000. Bids 7/27. CD 7/30—ENR 8/6 under LB.

†Delaware—IMPROVEMENTS—U. S. Eng., 6 and Walnut Sts., Phila., Pa., imprvs. bldgs., to F. H. Wilson, Ardmore, Pa., and to Barbour & Meagher Co., Inc., 101 Park Ave., New York, N. Y. **$100,000-$500,000** each.

†Florida—COMPASS SWING BASE, etc.—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, compass swing base and taxiways, Orange Co., to Brady Roofing Tiles, Mfg. Co., 3260 N.W. 27 Ave., Miami. Under **$50,000.**

†Florida—FENCING—U. S. Eng., Courthouse & Postoffice, Jacksonville, fencing, Palm Beach Co., to Clyde J. Keys, First Federal Bldg., St. Petersburg, under **$50,000.**

★**†Florida**—IMPROVEMENTS—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, imprvs., Inv.-Neg.-Jax-42-01, to W. L. Cobb Constr. Co., 1102-22 St., Tampa. Less than **$1,000,000.** Awarded 8/6.

★**†Florida**—IMPROVEMENTS—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, imprvs., Inc. Neg. S.M. 43-1, to Logan & Currin and West Coast Lumber Co., both Sarasota. Less than **$1,000,000.**

★**†Florida**—IMPROVEMENTS—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, imprvs., Inv.-Neg.-Jax-43-74, to Miller Electric Co., 556 Riverside Ave., Jacksonville, less than **$1,000,000.**

★**†Florida**—IMPROVEMENTS—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, imprvs., Inc. Neg.-M.B.-43-1, to Lester L. Preu Corp., 1440 Alton Rd., Miami Beach, less than **$1,000,000.**

★**†Florida**—IMPROVEMENTS—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, imprvs., Inv-Neg., to Sutton Constr. Co., Lakeland, less than **$1,000,000.** Awarded 8/6.

★**†Florida**—IMPROVEMENTS—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, imprvs., to Link-Belt Co., 1116 Murphy Ave. S.W., Atlanta, Ga. Less than **$1,000,000.**

★**†Florida**—IMPROVEMENTS—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, imprvts., Inv. Neg-Jax-43-92, to W. T. Price Dredging Corp., 3200 S.W. 27 Ave., Miami. Less than **$1,000,000.**

★**†Florida**—RUNWAY EXTENSIONS, etc.—U. S. Eng., Courthouse & Postoffice, Jacksonville, runway extens., aprons, **taxiways**, hardstandings, Polk Co., to J. E. Ballenger Constr. Co., Lakeland, **$500,000-$1,000,000.**

★**†Florida** — SEEDING, etc. — U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, sprigging and seeding, Inv. NEG-JAX-43-48, to Island Landscape Co., Inc., 309 S. County Rd., Palm Beach. **Less than $1,000,000.**

†Florida—SPUR TRACK—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, railroad spur track, Polk Co., to Sutton Constr. Co., Lakeland. Under **$50,000.**

†Florida—TARGET RANGES—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, target ranges, Lee Co., to Means Constr. Co., Duval Bldg., Jacksonville, under **$50,000.**

†Florida—TARGET RANGES—U. S. Eng., Courthouse & Post office, Jacksonville, moving target ranges, Lee Co., to J. L. Cone & J. D. Manly, Caesar Ave. and Cumberland St., Tampa, **$100,000-$500,000.**

†Florida—TAXIWAYS—U. S. Eng., Courthouse & Postoffice, Jacksonville taxiways, Lee Co., to W. H. Armston Co., Inc., Dunedin, under **$50,000.**

★**†Georgia**—APRON PAVING, etc.—U. S. Eng., Postoffice Bldg., Savannah, paving apron, hardstandings, taxiways, runways, Chatham Co., to William F. Bowe, Jr., Augusta, **$1,000,000-$5,000,000.**

†Georgia—CLEARING, etc.—U. S. Eng., Post Office Bldg., Savannah, clearing and grubbing, McIntosh Co., to L. H. Simkins, Augusta, under **$50,000.**

†Georgia—CLEARING, etc.—U. S. Eng., Post Office Bldg., Savannah, clearing and grubbing, Ware Co., to Williams Bros., Meridian. Under **$50,000.**

†Georgia — ELECTRICAL DISTRIBUTION SYSTEM — U. S. Eng., Postoffice Bldg., Savannah, electrical distr. sys., Liberty Co., to Nyck Electric Co., Savannah, under **$50,000.**

†Georgia—FUELING SYSTEM—U. S. Eng., Postoffice Bldg., Savannah, fueling sys., Chatham Co., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y., under **$50,000.**

†Georgia—VENTILATING SYSTEM, etc.—U. S. Eng., 494 Spring St. N.W., Atlanta, ventilating and heating sys., Cobb Co., to R. C. Mahon Co., 8650 Mt. Eliot St., Detroit, Mich., **$100,000-$500,000.**

†Idaho—COMPASS SWINGING BASE, etc.—U. S. Eng., Pittock Block, Portland, Ore., compass swinging base and taxiway, Ada Cox., to C. W. Watkins, S. E. of City, Boise, Idaho, under **$50,000.**

†Idaho—ELECTRICAL SYSTEM—U. S. Eng., Pittock Blk., Portland, Ore., electrical sys., Ada Co., to City Electric Co., Nampa, under **$50,000.**

†Illinois—IMPROVEMENTS—War Dpt., Constitution Ave. at 20 St. N.W., Wash., D. C., imprvs., to Fegles Constr. Co., 711 Wesley Temple Bldg., Minneapolis, Minn.

†Illinois—CHIMNEYS—U. S. Eng., U. S. Courthouse and Customhouse, St. Louis, Mo., brick chimneys, Sangamon Co., to Continental Chimney Co., Inc., 127 N. Dearborn St., Chicago. Under **$50,000.**

★**†Illinois**—IMPROVEMENTS—U. S. Eng., Federal Bldg., Louisville, Ky., imprvs., Divisions Nos. 1, 2 and 3, to Garrick Constr. Co., 134 N. La Salle St., Chicago, and H. Dattner, 1516 Barium Tower, Detroit, Mich., and Div. 4, to States Improvement Co., 30 N. La Salle St., Chicago. **$1,000,000-$5,000,000.**

†Indiana—PIPE INSULATION—U. S. Eng., 520 Merchandise Mart, Chicago, Ill., insulation piping and mechanical equipment, Lake Co., to Asbestos & Magnesia Materials Co., 123 N. Peoria St., Chicago, **$50,000-$100,000.**

†Iowa—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, Neb., runways, aprons, taxiways, Woodbury Co., to Townsco Equip. Co., 1704 N.W. 6 St., Oklahoma City, Okla., under **$50,000.**

†Louisiana—STEEL INSTALLATION—U. S. Eng., foot of Prytania St., New Orleans, installing structural and miscellaneous steel for repair shop, Rapides Parish, to Truscon Steel Co., 1315 Albert St. Ext., Youngstown. Under **$50,000.**

†Louisiana—RUNWAYS, [illegible] foot of Prytania St., New [illegible] S. Eng., taxiways, Rapides Parish, to [illegible] runways, lard, Bossier City. $100,000-$[illegible],000.

†Louisiana—RUNWAYS—U. [illegible] Eng., foot Prytania St., New Orleans, [illegible] ways, East Baton Rouge Parish, to Bar[illegible] Bros. Construction Co., Raymond Bldg., Baton Rouge. $100,000-$500,000.

†Maine—SPUR RAILROAD [illegible] K—U. S. Eng., 31 St. James Ave., Bos[illegible] Mass., spur railroad track, Penobscot Co., to Central R. R. Co., 222-242 St. John [illegible] Maine Central R. R. Co., Portland. Under **$50,000.**

†Maryland—CONSTRUCTION—[illegible] S. Eng., Standard Oil Bldg., Baltimore, [illegible] construction, Baltimore Co., to Consolidated [illegible] Engineering Co., Inc., 20 E. Franklin St., Baltimore. $100,000-**$500,000.**

†Massachusetts — GASOLINE SYSTEM — U. S. Eng., Park Sq. Bldg., Boston, gasoline sys., 175-43-NEG 23, to Aqua Systems, Inc., 385 Gerard Ave., Stuart St., Boston, under **$50,000.** Bids 8/4. CD 8/4.

★**†Massachusetts**—IMPROVEMENTS—U. S. Eng., Park Sq. Bldg., Boston, imprvts., to David Massif Co., 20 Providence St., Boston. Est. **$750,000.** Bids 8/10. CD 8/[illegible].

★**†Michigan**—CLEARING, etc.—U. S. Eng., 700 Union Guardian Bldg., Detroit, clearing, grubbing, excavating, paving, fosco Co., to Johnson & Greene, Whitmore Lake. **$1,000,000-$5,000,000.**

†Michigan—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 700 Union Guardian Bldg., Detroit, electrical distr. sys., Washtenaw Co., to General Electrical Engineering Co., 2148 Gratiot St., Detroit, under **$50,000.**

†Michigan—IMPROVEMENTS—U. S. Eng., 700 Union Guardian Bldg., Detroit, imprvs., to Homer Bros., Inc., Detroit, and Jutton & Kelly Co., 13240 Alber Ave., Dearborn, less than **$1,000,000.**

†Michigan—RAILROAD SPUR—U. S. Eng., 700 Union Guardian Bldg., Detroit, railroad spur track, Macomb Co., to Hamer Brothers, Inc., 434 Curtis Bldg., Detroit. **$100,000-$500,000.**

†Mississippi—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., U. S. Post Office and Court House, Vicksburg, electrical distr. sys., Leflore County, to Stuart C. Irby Co., 815 State St., Jackson, under **$50,000.**

★**†Mississippi**—FENCING—U. S. Eng., U. S. Courthouse and Customhouse, Mobile, Ala., fencing, Jackson Co., to Cooper Bros. Constr. Co., Selma, Ala., under **$50,000.**

†Mississippi—GRADING, etc.—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., grading and drainage of railroad spur, Harrison Co., to F. S. Neely, Kosciusko. Under **$50,000.**

†Mississippi—GRADING, etc.—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., site grading, drainage yards, streets and parking areas, to Hercules Powder Co., Delaware Trust Bldg., Wilmington, Del., **$100,000-$500,000.**

†Mississippi—TAXIWAYS—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, taxiways, Louderdale Co., to Morrissey & Knost, Vicksburg. **$100,000-$500,000.**

★**†Missouri**—CLEARING, GRUBBING, etc.—U. S. Eng., P. O. Box 97, Memphis, Tenn., clearing, grubbing, site grading, drainage and sodding, Dunklin Co., to Gregory-Hogan, American Natl. Constr. Co. and Joseph Keal Rental Equipment Co., Newport, Ark. **$1,000,000-$5,000,000.**

★**†Missouri**—IMPROVEMENTS—U. S., 1709 Jackson St., Omaha, Neb., imprvs., to Inland Constr. Co., 3867 Leavenworth St., Omaha, Neb. Total project **$5,000,000.**

†Nebraska—FIRE ALARM SYSTEM—U. S. Eng., 1709 Jackson St., Omaha, installing fire alarm sys., Box Butte Co., to American District Telegraph Co., 155 6 Ave., New York, N. Y. Under **$50,000.**

†Nebraska—ALARM SYSTEM—U. S. Eng., 1709 Jackson St., Omaha, alarm sys., Cheyenne Co., to Henry W. Miller, Insurance Bldg. Annex, Omaha, **$50,000-$100,000.**

†Nebraska—PLATFORMS, etc.—U. S. Eng., 1709 Jackson St., Omaha, Neb., loading platforms, wood ramps, sentry boxes, and temporary frame bldgs., Davison Co., to Geer Co., Grand Island, **$100,000-$500,000.**

†Nevada—FUELING SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., a.c. gasoline fueling sys. at auxiliary landing field, Inv. 160, Clark Co., to Flotation Systems, Inc., 4031 Goodwin Ave., Los Angeles, Calif. Under **$50,000.** Bids 8/6.

†Nevada—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., imprvs., No. 140, to F. Pinkerton 108 Southwest Blvd., Corona, less than **$50,000.** CD 8/10—ENR 8/13 under LB.

†Nevada—LANDING FIELD, etc.—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., auxiliary landing field, temporary frame bldgs., electric, water and sewerage systems, roads, Clark Co., to F. Pinkerton, Corona, Calif. **$100,000-$500,000.**

†New Hampshire—ALARM SYSTEM—U. S. Eng., 31 St. James Ave., Boston, Mass., alarm

UNCLASSIFIED (Contracts Awarded, Cont'd.)

sys. for storage bldgs., Hillsboro Co. to American District Telegraph Co., 45A Free St., Portland, Me. Under **$50,000.**

†**New Mexico**—GASOLINE FUELING SYSTEM, etc.—U. S. Eng., Albuquerque, gasoline fueling sys., mechanical pumping, oil storage unit, Lea Co., to Wonderly Constr. Co., Long Beach, Calif. **$50,000-$100,000.** CD 8/5—ENR 8/13.

†**New Mexico**—HEATING, etc.—U. S. Eng., Albuquerque, constructing heating, ventilating and air conditioning equipment, Chaves Co., to Air Conditioning Co. of Southern California, 1003 S. Santa Fe Ave., Los Angeles, Calif. Under **$50,000.**

†**New Hampshire**—SPUR TRACK—U. S. Eng., 31 St. James Ave., Boston, Mass., spur track, Hillsboro Co., to Boston & Maine R. R., 130 Causeway, Boston, Mass. Under **$50,000.**

†**New Jersey** — IMPROVEMENTS — U. S. Eng., 120 Wall St., New York, imprvs., excav., grading, etc. to Standard Bitulithic Co., foot of Brill St., Newark, **$50,000-$100,000.**

†**New Jersey**—PLATFORMS—U. S. Eng., 120 Wall St., New York, N. Y., timber platforms, Hudson Co., to John H. Carl & Sons, Inc., 614 E. 14 St., New York, N. Y. Under **$50,000.**

†**New York**—LIGHTING SYSTEM—U. S. Eng., 120 Wall St., New York, outside lighting sys., Clinton Co., to Edward Zwicker Corp., 415 Lexington Ave., New York, N. Y., under **$50,000.**

†**New York**—PLATFORMS—U. S. Eng., 120 Wall St., New York, timber platforms, Richmond Co., to John H. Carl & Sons, Inc., 614 E. 42 St., New York. Under **$50,000.**

†**Ohio**—PLUMBING, etc.—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., plumbing, heating, air conditioning sys., Cuyahoga Co., to Gorman-Lavelle Plumbing & Heating Co., 4408 Carnegie St., Cleveland, **$50,000-$100,000.**

★†**Ohio** — POWER DISTRIBUTION, etc. — U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., power distribution and master sub-station, Allen Co., to R. C. Martin Co., Detroit, Mich. Less than **$1,000,000.**

†**Ohio**—RAILROAD TRACK—U. S. Eng., 232 N. High St., Columbus, laying railroad track, Portage Co., to Industrial Track Service Co., Youngstown, **$50,000-$100,000.**

†**Ohio** — RUNWAYS — U. S. Eng., Wright Field, paving runways, Montgomery Co., to Acme Constr. Co., Dayton. **$100,000-$500,000.**

†**Ohio**—TAXIWAY, etc.—U. S. Eng., Post-office & Courthouse, Cincinnati, taxiway, apron and gasoline supply sys., Hamilton Co., to W. L. Harper Co., 914 Main St., Cincinnati, under **$50,000.**

†**Oklahoma** — FENCING — U. S. Eng., 416 Wright Bldg., Tulsa, fencing, Tulsa Co., to R. D. Smittle, East of City, Tulsa. Under **$50,000.**

†**Oregon**—DISTRIBUTION SYSTEM—U. S. Pittock Blk., Portland, exten. parking sys., to Blue Bird Electric Co., Corvallis. Under **$50,000.**

†**Oregon** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Pittock Blk., Portland, electric distr. sys., Benton Co., to Bosler Electric Shop, 236 State St., Salem, under **$50,000.**

†**Oregon**—PARKING APRONS—U. S. Eng., Pittock Blk., Portland, exten. parking apron, Jackson Co. to Harry I. Hamilton, Eugene, under **$50,000.**

†**Pennsylvania** — IMPROVEMENTS — U. S. Eng., 6 and Walnut Sts., Phila., imprvs., to Ritter Bros., 1511 N. Cameron St., Harrisburg.

†**Pennsylvania**—IMPROVEMENTS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., imprvs., to O. H. Martin, 513 N. Homewood Ave., Pittsburgh. Hunting-Davis & Dunnells, Century Bldg., Pittsburgh, archts. Industrial Company will operate.

†**Pennsylvania**—INSULATION—U. S. Eng., 925 New Federal Bldg., Pittsburgh, insulating equipment and interior and exterior piping, Crawford Co., to Achenbach & Butler, Inc., 1508 Brandywine St., Phila. **$100,000-$500,000;** insulation of storage and process tanks, Crawford Co., to Alfol Insulation Co., Inc., 155 E. 44 St., New York, N. Y. Under **$50,000.**

†**South Carolina**—CLEARING, etc.—U. S. Eng., 33 Customhouse, Charleston, clearing, grubbing, grading, draining, paving taxiways and parking areas, Horry Co., to Atlantic Bitulithic Co., Munsey Bldg., Wash., D. C. **$100,000-$500,000.**

†**South Carolina**—CLEARING—U. S. Eng., 33 Customhouse, Charleston, clearing for taxiways, hard stands, Horry Co., to Ingram-Dargan Lumber Co., Conway, under **$50,000.**

†**South Carolina**—CLEARING, etc.—U. S. Eng., 33 Customhouse, Charleston, clearing, grubbing, grading, paving service aprons, Horry Co., to Barger Bros., Mooresville, N. C., **$100,000-$500,000.**

†**South Carolina**—ALARM SYSTEM—U. S. Eng., 33 Customhouse, Charleston, installing protective alarm sys., Horry Co., to American District Telegraph Co., 145 E. Bay St., Charleston. Under **$50,000.**

†**South Carolina**—CONSTRUCTION — U. S. Eng., 33 Customhouse, Charleston, construction, Horry Co., to F. Brown, Inc., Charlotte, N. C., under **$50,000.**

South Carolina — DOCK — U. S. Eng., 33 Customhouse, Charleston, exten. to concrete and timber dock construction, Charleston Co., to Wannamaker & Sons, Wells, Inc., Orangeburg. **$50,000-$100,000.**

†**South Carolina** — ELECTRIC SYSTEM, etc.—U. S. Eng., 33 Customhouse, Charleston, electric, water and sewerage sys., Sumter Co., to Boyle Constr. Co., Sumter, **$100,000-$500,000.**

†**South Carolina** — MACHINE GUN TARGETS—U. S. Eng., 33 Customhouse, Charleston, machine gun targets, Horry Co., to V. P. Loftis Co., Builders Bldg., Charlotte, N. C., **$50,000-$100,000.**

†**South Carolina**—SPRINKLER SYSTEM—U. S. Eng., 33 Customhouse, Charleston, automatic sprinkler sys., Robeson Co., to Grinnell Co., Inc., 1431 W. Morehead St., Charlotte, N. C., under **$50,000.**

†**South Dakota**—FENCE—U. S. Eng., 1709 Jackson St., Omaha, Neb., boundary fence, clearing, grading, to **Dave Gustafson**, S. E. Gustafson, and A. P. Jarvis Contr. Co., 207 N. Wiber St., Sioux Falls, **$100,000-$500,000.**

†**South Dakota**—HEATING FACILITIES—U. S. Eng., 1709 Jackson St., Omaha, installing heating facilities, Minnehaha Co., to Lenci, Lenci & Englund, Inc., Virginia, Minn. and H. L. Stava Co., Hibbing, Minn. Under **$50,000.**

†**South Dakota** — SUB-GRADE, etc. — U. S. Eng., 1709 Jackson St., Omaha, Neb., constructing sub-grade and stabilized base, Minnehaha Co., to H. Duininck and D. H. Gilchrist, Olivia, Minn. **$100,000-$500,000.**

†**Tennessee**—AIR CONDITIONING SYSTEM—U. S. Eng., 306 U. S. Courthouse, Nashville, air conditioning sys., Maury Co., to T. L. Herbert & Son, 174 3 Ave. N., Nashville, under **$50,000.**

†**Tennessee**—PLUMBING, etc.—U. S. Eng., U. S. Court House, Nashville, installing plumbing, heating and industrial piping, to C. P. Wright & Co., Cleveland, O. **$100,000-$500,000.**

†**Texas**—CLEARING, etc.—U. S. Eng., Fort Sam Houston, clearing, blading, fencing, Spec. 42-237, to O. L. Neyland, 1450 W. Magnolia St., San Antonio. Under **$50,000.** CD 8/3—ENR 8/6.

†**Texas**—CLEARING, etc.—U. S. Eng., San Antonio, clearing, blading, constructing fences (2) Bexar Co., to J. Skelton, 225 Tuxedo St., San Antonio. Under **$50,000** each.

†**Texas**—DUMPS, BALLASTING, etc.—U. S. Eng., Fort Sam Houston, building dumps, ballasting and laying standard gage rails for addnl. railway switching facilities, to Bradford & Smith, Abilene, under **$50,000;** electrical distr. sys., to Sub Electric Co., Abilene, under **$50,000,** both Spec. 42-150.

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., San Antonio, electrical distr. sys., Taylor Co., to Embry Electric Co., Brady, under **$50,000.**

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., San Antonio, electrical distr. sys., Bexar Co., to Allen Electric Co., 125 North St., San Antonio. Under **$50,000.**

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., San Antonio, electrical distr. sys., Bexar Co., to Graham & Collins Electric Co., 700 Ave. A, San Antonio. Under **$50,000.**

†**Texas**—ELECTRIC DISTRIBUTION SYSTEM, etc.—U. S. Eng., San Antonio, electric distr. sys., taxiways, aprons, roads, sidewalks, etc., Bexar Co., to Hays & Donathan, Southern Standard Bldg., Houston. **$50,000-$100,000.**

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., San Antonio, electrical distr. sys., Bexar Co., to Claude Krisch Electric Co., 104 E. Huff St., San Antonio. Under **$50,000.**

†**Texas** — ELECTRICAL SYSTEM — U. S. Eng., 231 Main St., Denison, outdoor overhead electrical sys., to F. H. Spaulding, 3018 Paseo St., Oklahoma City, Okla. Under **$50,000.**

†**Texas**—FENCE—U. S. Eng., San Antonio, boundary fence, Brown Co., to P. C. Stanley, Fort Worth. Under **$50,000.**

†**Texas**—FUELING SYSTEM—U. S. Eng., Fort Sam Houston, extending A.C. fueling sys., Spec. 42-215, to Aqua System, Inc., 3611 Parry St., Dallas. Under **$50,000.** CD 7/23.

†**Texas**—FUELING SYSTEM—U. S. Eng., Albuquerque, N. M., gasoline, oils and complete fueling sys., etc., to T. D. Butcher, 1210 Texas St., El Paso. Under **$50,000.**

†**Texas**—GASOLINE FUELING SYSTEM—U. S. Eng., 25 St. and Avenue F, Galveston, gasoline fueling sys., Midland Co., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y., under **$50,000.**

†**Texas**—GASOLINE FUELING SYSTEM—U. S. Eng., 25 St. and Ave. F, Galveston, gasoline fueling sys., Victoria Co., to J. W. France Co., Corpus Christi, under **$50,000.** CD 7/24—ENR 7/30.

†**Texas** — IMPROVEMENTS — Col. J. T. Sprague, comm. officer, U. S. Army Air Corps, Waco, imprvs. WPA. **$177,229.**

†**Texas**—IMPROVEMENTS—U. S. Eng., 231 W. Main St., Denison, imprvs., to Russ Mitchell Inc., 2302 Jefferson St., Houston. **$100,000-$500,000.**

★†**Texas** — IMPROVEMENTS — U. S. Eng., Fort Sam Houston, improvements, Spec. 42-223, to R. W. Briggs and M. B. Killian, P. O. Box 1886, San Antonio. **$500,000-$1,000,000.** Bids 7/28. CD 8/6—ENR 8/13, under LB.

†**Texas** — LIGHTING FACILITIES — U. S. Eng., 231 W. Main St., Denison, lighting facilities, Grayson Co., to North Texas Constr. Co., Sherman, under **$50,000.**

†**Texas**—RAILROAD SPUR—U. S. Eng., 25 St. and Avenue F, Galveston, railroad spur, Brazos Co., to Wm. A. Smith Constr. Co. Inc., 301 Gregg St., Houston. Under **$50,000.**

†**Texas**—RAILWAY SPUR—U. S. Eng., 231 W. Main St., Denison, railway spur, Dallas Co., to Missouri-Kansas-Texas R. R. Co., Katy Bldg., Dallas. Under **$50,000.**

†**Texas**—STORAGE SYSTEM, etc.—U. S. Eng., San Antonio, gasoline storage and dispensing sys., Brown Co., to Slaughter & Myers, Dallas. Under **$50,000.**

†**Texas**—UNDERGROUND UTILITIES, etc.—U. S. Eng., Fort Sam Houston, to F. A. Nunnelly, 118 Delaware St., San Antonio, underground utilities, incl. water distr. lines and facilities, sanitary sewer collection sys., natural gas distribution lines and facilities, part of Spec. 42-224. **$50,000-$100,000.**

Tex., Palestine — SPUR TRACK — Missouri Pacific R.R. Co., Missouri Pacific Bldg., St. Louis, Mo., F. E. Bates, ch. engr., 1½ mi. spur track, switching facilities. Force account. **$65,000.**

†**Utah**—IMPROVEMENTS—U. S. Eng., 32 Exchange Pl., Salt Lake City, imprvs., to Intermountain Contractors, 417 Atlas Bldg., Salt Lake City. **$100,000-$500,000.**

†**Utah**—MONORAIL SYSTEM, etc.—U. S. Eng., 32 Exchange Pl., Salt Lake City, monorail sys. and spray booth, Weber Co., to S. E. Faddis, Salt Lake City. Under **$50,000.**

†**Washington**—CONSTRUCTION—U. S. Eng., 800 3 Ave., Seattle, construction, Pierce Co., to Foster & Kiefer Co., 1675 Eddy St., San Francisco, Calif. **$100,000-$500,000.**

†**Washington**—FACILITIES—U. S. Eng., 800 3 Ave., Seattle, facilities, to A. F. Mowat Constr. Co., 1331 3 Ave., Seattle. **$100,000-$500,000.** King County.

†**Washington**—IMPROVEMENTS—U. S. Eng., 800 3 Ave., Seattle, imprvts., to Holerts Electric Service, 2300 W. Spokane St., Seattle. Under **$50,000.**

†**Washington** — PARKING AREAS — U. S. Eng., Pittock Block, Portland, Ore., parking areas, Clark Co., to Hord & Stuart, Couch Bldg., Portland, Ore. Under **$50,000.**

†**Wisconsin**—STEAM LINES—U. S. Eng., 408 Federal Bldg., Milwaukee, insulating outside steam lines, Sauk Co., to Asbestos & Magnesium Mfg. Co., 123 N. Peoria St., Chicago, Ill. **$100,000-$500,000.**

Alta., Champion—AIRPORT—Dpt. Transport, Ottawa, Ont., addnl. imprvts. to Airport No. 2, to Kirkcaldy, grading, road imprvts., etc., to W. H. Reed, Edmonton. Est. **$37,000.**

Alta., Edmonton — AERODROME — Dpt. Transport, Ottawa, Ont., addnl. aerodrome development, hangar, barracks, mess hall, garage, etc., to H. G. Macdonald & Co., Ltd., Edmonton. Est. **$168,000.** Bids 7/29. CD 7/23.

Alta., Pearce—AERODROME—Dpt. Transport, Ottawa, Ont., addnl. aerodrome development for E.F.T. School, hard surfaced taxi strips, concrete aprons, drainage, to General Constr. Co., Ltd., Granville Island, Vancouver, B. C. Est. **$70,000.**

B. C., Fort St. John—AIRPORT—Dpt. Transport, Ottawa, Ont., developing new field at airport, clearing, stripping, hard surfaced runways, concrete slab, etc., to Tomlinson Constr. Co., Ltd., 1 Somerset Bldg., Winnipeg, Man. Est. **$300,000.**

B. C., Jericho Beach (Vancouver)—GROUND DEVELOPMENT—Dpt. Natl. Defense for Air, Ottawa, Ont., ground development, grading, smoothing, etc., to G. E. Baynes, 846 Howe St., Vancouver, **$120,000.**

N. B., St. John—WHARF—Dominion Govt., Ottawa, Ont., wharf, to A. Colter, Ltd., 7 Carleton St., Fredericton, **$300,000.**

N. S., Stanley—AERODROME—Dpt. Transport, Ottawa, Ont., developing aerodrome, clearing, grading, concrete areas, turning circle, to Municipal Spraying & Contg. Co., Ltd., 1350 Barrington St., Halifax. Est. **$175,000.**

★**Newfoundland** — AERODROME — Dpt. Transport, Ottawa, Ont., clearing, stumping, grubbing, grading, hard surfaced runways, taxistrips, roads, repairing runways, etc., to McNamara Constr. Co., Ltd., Industrial St., Toronto, Ont. Est. **$950,000.**

Ont., Decew Falls (Port Dalhousie)—CONTROL WORKS, etc.—Hydro Electric Power Comm. of Ontario, 620 University Ave., Toronto, control works and highway bridge, unit to Decew Falls exten. program, to Ontario Constr. Co., Ltd., Box 36, St. Catherines. About **$200,000.**

Ont., Hamilton — BATHING PAVILION — Harbor Comn., 21 E. Main St., bathing pavilion, to W. Hardie, 307 Cumberland St. Est. **$25,000.** W. B. Riddell, 25 S. Hughson St., archt.

UNCLASSIFIED (Contracts Awarded, Cont'd.)

Ont., London—IMPROVEMENTS—Secretary Dpt. Munitions & Supply, Ottawa, imprv., 3 double hangars at E.F.T. School and Air Observers School, for Dpt. National Defense for Air, Ottawa, to Frid Constr. Co., Ltd., Terminal Bldg., Hamilton. Est. **$450,000.** Bids 7/27. CD 7/21—ENR 7/23.

Ont., North Bay—AIRPORT—Dpt. Transport, Ottawa, Ont., clearing, grading, draining, concrete turning areas, etc., to Angus & Taylor, Ltd., North Bay. Est. **$295,000.**

Ont., Tillsonburg — AERODROME — Dpt. Transport, Ottawa, clearing, grubbing, rolling, draining, etc., to Armstrong Bros. Constr. Co., Ltd., 19 Main St., N., Brantford. Est. **$70,000.**

Que., Ancienne Lorette — HANGARS — Dpt. National Defense for Air, Ottawa, Ont., 2 single and 2 double land plane hangars, to Page Equipment & Constr. Co., Ltd., 1497 Craig St., Three Rivers, about **$450,000.**

Que., Dorval (Montreal)—HANGAR—Dpt. National Defense for Air., Ottawa, Ont., Hangar No. 6, annex and boiler house at airport, to J.A.A. Leclair-Dupuis, Ltd., 620 Cathcart St., Montreal. **$415,000.**

Que., Mont Joli—AIRPORT—Dpt. Transport, Ottawa, Ont., airport development, imprv. runways, taxistrips, asphalt apron, to Construction National & Clemines, Ltd., Quebec City. Est. **$136,000.**

★**Que., St. Johns**—AIR SCHOOL—Dpt. National Defense for Air, Ottawa, Ont., addnl. accommodations, barrack, mess hall, officer quarters, etc., No. 9 Air Oversevers' School, to Marien-Wilson, Ltd., 1434 St. Catherines St. W., Montreal, about **$700,000.** Bids 7/2. CD 7/23.

Que., St. Johns—HANGAR—Dpt. National Defense for Air, Ottawa, Ont., addnl. hangar accommodations, Air Observers' School, to L. G. Ogilvie & Co., Ltd., 2228 Walkeley Ave., Montreal, **$350,000.** Bids 7/8. CD 6/29—ENR 7/2.

Sask., Moose Jaw — AERODROME — Dpt. Transport, Ottawa, Ont., addnl. aerodrome development, for EFT School, hardsurfaced taxiways, rein.-con. aprons, draining, etc., to R. B. McLeod & Co., Ltd., Saskatoon. Est. **$110,000.**

Sask., Swift Current — AIRPORT — Dpt. Transport, Ottawa, Ont., addnl. airport development, stripping, grading, rein.-con. slab, etc., to Evans Gravel & Surfacing Co., Ltd., Saskatoon. Est. **$65,000.**

LATIN AMERICA

Mexico—Dpt. P. Wks. & Communications, Mexico City, c/o E. F. Suarez, secy. finance, crude oil pipeline from Tampico to point on border of Texas.

Mexico — American Air Lines de Mexico, S. A., Calle Lopez, No. 1-601, Mexico City, 2 airports at Mexico City, and 15 mi. north of Monterey, 3 emergency landing fields at Victoria, Tamaulipas, Guerrero, San Luis Potosi and Actopan, Hidalgo. Separate contracts.

PUBLIC BUILDINGS

PROPOSED WORK

†**Arizona**—U. S. Eng., Albuquerque, N. M., architect-engineer services, by W. C. Kruger, Sena Plaza, Santa Fe, N. M., temporary frame bldgs., Cochise Co.

Ark., Blytheville—State Agricultural & Industrial Comn., J. O. Krump, chn., State Capitol, Little Rock, vegetable dehydrating plant.

Ark., Fayetteville—Arkansas Agricultural & Industrial Comn., State Capitol, Little Rock, plant for dehydrating eggs.

Ark., Jonesboro—Arkansas Agricultural & Industrial Comn., State Capitol, Little Rock, plant for dehydrating eggs.

†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, architect-engineer services by Steward & Skinner, Miami Beach, conversion hotel into hospital, Pinellas Co.

†**Georgia**—U. S. Eng., Post Office Bldg., Savannah, frame bldgs., to Wheatley & Mobley, Augusta.

†**Indiana**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., rebuilding mess hall. Over $100,000.

★†**Indiana**—U. S. Eng., Federal Bldg., Louisville, Ky., plant conversion. $1,000,000-$5,000,000.

Ind., Charlestown—T. J. Marshall, Twp. Trustee, bids in about 30 days 1 story, concrete school. $150,000. Henkel & Hanson, 7 Thornburg Bldg., Connersville, archts.

★†**Iowa**—War Dpt., 20 St. and Constitution Ave., N.W., Wash., D. C., expanding buildings. $5,000,000.

†**Kansas**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., warehouse. Approx. $7,000,000.

†**Me., York**—Federal Works Agency, 99 Chauncy St., Boston, Mass., plans by Huddleston & Hersey, Dover Rd., Durham, N. H., 1 story, frame school. $55,000. FWA.

†**Massachusetts**—U. S. Eng., 31 St. James Ave., Boston, architect-engineer services, by Newbury Association, Boston, remodeling temporary frame bldgs., Suffolk Co.

†**Massachusetts**—U. S. Eng., 31 St. James Ave., Boston, architect-engineer services, by Metcalf & Eddy, 1300 Statler Bldg., Boston, temporary frame bldgs., electric, water and sewage systems, Suffolk Co.

†**Mississippi**—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, bldgs. Black & Veatch, 4706 Bway., Kansas City, Mo., archts.

★†**Missouri** — Bechtel, McCone & Parsons Corp. (A-E-M), Louisiana, soon takes bids, buildings. Federally financed. Industrial Company will operate. H. K. Graf, 2825 Olive St., St. Louis, archt.

†**Missouri**—Federal Public Housing Auth., c/o E. Emmerich, comr., Temporary Bldg. No. 2, 19 and D Sts., Wash., D. C., soon takes bids, 50 unit housing, Mo. 23051, also frame community bldg. Under $500,000. H. K. Graf, 2825 Olive St., St. Louis, archt.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, plant. Over $5,000,000.

†**Neb., Wahoo**—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., 300 dormitories.

†**New Hampshire**—U. S. Eng., 31 St. James Ave., Boston, Mass., engineer-architect services, by Canteaume, McMullen & M. E. Witmer, 31 St. James Ave., Boston, concrete building, Rockingham Co.

†**North Carolina**—U. S. Eng., 308 Customhouse, Wilmington, architect-engineer services, by Metcalf & Eddy, 1300 Statler Bldg., Boston, Mass., temporary frame bldgs., New Hanover County.

†**O., Marion**—U. S. Eng., 1 and Douglas Sts. N. W., Wash., D. C., 960 dormitories.

†**Okla., Choteau**—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., 2,680 dormitories.

†**Pennsylvania**—Philadelphia Housing Auth., 21 St. and Parkway, Phila., plans by I. Demchick, 220 S. 16 St., and D. Supowitz, 246 S. 15 St., Phila., housing, for NHA.

†**Pennsylvania**—U. S. Bureau of Mines, C St., between 18 and 19 Sts., N.W., Wash., D. C., plants.

†**R. I., Middletown (mail Newport)**—Town, L. Main, supt. schools, revised plans by I. Almy, 56 N. Main St., Fall River, Mass., grade-junior high school, RI 37-104. **$335,000. FWA.** CD 6/9—ENR 6/11, under BA.

†**R. I., Tiverton**—Town, L. M. Wagerstone, supt. schools, Stone Bridge, will not construct school, North Tiverton. $115,000. FWA. Project in abeyance. E. M. Corbett, 49 Purchase St., Fall River, Mass., archt. CD 5/21—ENR 5/14, under BA.

†**South Dakota**—U. S. Eng., 1709 Jackson St., Omaha, Neb., engineer-architect services, by W. J. Dixon and C. A. Trimmer, Mitchell, temporary frame bldgs., Davison Co.

†**Tennessee**—Defense Plant Corp., 811 Vermont Ave., N.W., Wash., D. C., manufacturing plant.

★†**Tennessee**—Yards & Docks, 18 St. and Constitution Ave. N.W., Wash., D. C., school, $5,000,000.

†**Tennessee**—N. W. Westbrook, 2108 Ringgold Rd., Chattanooga, plant. $100,000. Defense Plant Corp. will finance.

★†**Texas**—U. S. Eng., Fort Sam Houston, buildings. Over $5,000,000.

†**Texas**—U. S. Eng., Fort Sam Houston, soon takes bids administration bldg., bldgs., etc., Spec. 42-305. Plans $25 deposit.

†**Texas**—U. S. Eng., 231 Main St., Denison, buildings.

†**Texas, Fort Worth**—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., 1,500 dormitories.

†**Tex., Karnack**—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., 480 dormitories.

†**Va., Geneva**—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., 160 dormitories.

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, engineer-architect services, by McClelland & Jones, Republic Bldg., Seattle, temporary frame bldgs., Spokane Co.

Wash., Olympia—Sept. 8 to vote on special levy 2 schools. $320,000.

Wash., Seattle—W. F. Devin, mayor, 2500 houses. $5,500,000. Federal funds sought.

†**Wash., Spokane**—School Dist. 81, shop, airplane hangar, training school. $200,000. FWA grant approved.

†**Wash., Spokane**—St. Luke's Hospital. N. 830 Summit Blvd., hospital addn. $145,000. FWA.

★**Wash., Tacoma**—Tacoma Housing Auth., 4500 housing units. $13,500,000. Federal funds sought.

†**Wash., Vancouver** — School Bd., 3 schools. $378,000. FWA gr. approved.

†**Wash., Vancouver**—Clark General Memorial Hospital, Inc., Vancouver, hospital addn. $205,000. $100,000 FWA loan approved.

†**Wisconsin**—Defense Plant Corp., 811 Vermont Ave. N.W., Wash., D. C., plans by O. Brunkow, Madison, plant.

BIDS ASKED

Bids Asked August

★†**Connecticut**—Public Housing Auth., 16 Armistice St., New Haven, NHA housing, Conn 6033. $1,100,000. Lumber Plans $5 deposit. 410 Asylum St., Hartford, architects, deposit. CD 6/22—ENR 6/25

Bids Asked August

★†**Pennsylvania** — Carnegie Steel Corp., Carnegie Bldg., Pittsburgh, facilities, contract addnl. facilities, bldg., appurtenant electric distr. facilities, etc. $3

Bids Asked September

†**Pennsylvania** — Allegheny County Housing Auth., F. L. Palmer, exec. dir., 301 County Office Bldg., Pittsburgh, housing project Pa. 36105, for NHA. Extended date. CD 8/10—ENR 8/13.

Bids Asked

★†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, bldgs., appurtenant facilities, No. 509-43-163; addnl. housing No. 509-43-167; bldg., No. 509-43-158; electrical distr. sys. exten. No. 509-43-149; bldg. No. 509-43-134.

★†**New Mexico**—U. S. Eng., Albuquerque, 36 frame 1 and 2 story, bldgs. $700,000. Plans $50 deposit.

†**Pennsylvania**—Beaver Co. Housing Auth., R. Bennett, chn., P. O. Box 181, Beaver, 400 unit housing project, Pa. 36301 and 342 unit Pa. 36302, for NHA. Extended date. CD 7/30, under BA.

†**Pennsylvania** — U. S. Eng., Middletown, chapel.

★†**Texas**—U. S. Eng., 231 W. Main St., Denison, buildings, plans $50 deposit; sanitary sewer sys. exten., plans $50 deposit; WW exten. and addns., plans $50 deposit; natural gas distr. lines, facilities, plans $50 deposit. To exceed $1,000,000.

†**Texas**—U. S. Eng., 231 W. Main St., Denison, fifty 1 and 2 story frame buildings. $400,000. Plans $50 deposit.

†**Texas**—U. S. Eng., 231 W. Main St., Denison, addnl. buildings. $250,000. Plans $50 deposit.

†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, bldgs., W-2193-43-6.

†**Washington** — U. S. Eng., Pittock Blk., Portland, Ore., bldg., No. 698-156.

LOW BIDDERS

†**California**—U. S. Eng., Wright Bldg., Sacramento, Aug. 10, buildings, facilities, Spec. 134, from G. E. Hall, 1326 30 St., Bakersfield, $312,381. CD 8/7.

†**California**—U. S. Eng., Wright Bldg., Sacramento, Aug. 10, 30 duplex housing units, Spec. 138, from C. B. Cameron & Son, P. O. Box 244, Merced. $100,000-$500,000.

†**Maryland**—U. S. Eng., Standard Oil Bldg., Baltimore, five 1 and 2 story frame bldgs., from Chas. C. Sanford Co., 530 N. Fulton Ave., Baltimore.

†**Md., Greenbelt** — Farm Security Admin., Wash., D. C., Aug. 5, school, from C. M. H. Co., 316 Randolph Pl. N.E., Wash., D. C. **$158,000.** CD 7/28—ENR 7/30.

CONTRACTS AWARDED

★†**Alabama**—Industrial Company, bldgs., to Cunningham-Rudy Co., 3087 W. Grand Blvd., Detroit, Mich. Est. **$2,000,000.** Federally financed. D. B. Schuyler, Tuscaloosa, engr. CD 7/1—ENR 7/9, under CA.

★†**Arkansas**—Federal Housing Auth., NHA, Temp Bldg. No. 2, 19 and D Sts. N.W., Wash., D. C., prefabricated houses, to Young & Maury, 554 Adams St., Memphis, Tenn. Est. less than **$500,000.**

★†**Arkansas**—Federal Housing Auth., NHA, Temp Bldg. No. 2, 19 and D Sts. N.W., Wash., D. C., 100 units prefabricated housing, Ark. 3042, to E. L. Bruce Co., Thomas St., Memphis, Tenn. Est. less than **$1,000,000.**

†**Arkansas**—U. S. Eng., Gay Bldg., Little Rock, temporary frame bldgs., electric, water, sewerage sys., Crawford Co., to R. A. Hughes, Fayetteville, **$100,000-$500,000.**

★†**Arkansas**—U. S. Eng., 300 Bway., Little Rock, plant, to Paterson & McFaden Co., Commercial Natl. Bank Bldg., Little Rock. Less than **$5,000,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, temporary frame bldgs., San Diego Co., to F. B. Layne & Co., Burbank. **$100,000-$500,000.**

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, altering Bldg. 48, Inv. ORD 146-43-3, to Nielsen, Erbentraut & Summers, 446 6 St., San Francisco. Bids 8/7. CD 7/30.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, temporary frame bldgs., San Diego Co., to E. F. Bryan and C. A. Larsen, San Diego, under **$50,000.**

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, bldgs., to Carl J. Fung & Co., 710 Sacramento St., San Francisco, under **$1,000,000.** Negotiated Aug. 11.

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, bldg., to Floyd V. Hampshire, 246 Hawthorne St., Salinas, under **$1,000,000.** Negotiated Aug. 11.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, temporary frame bldgs., extend. railroad spur and heavy duty ramp.

PUBLIC BLDGS (Contracts Awarded, Cont'd)

Riverside Co., to F. B. Layne and W. R. Walker, 217 N. Lake Ave., Burbank, under $50,000.

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, housing, to Lewis Constr. Co., 254 Hobart St., Oakland, under $1,000,000. Negotiated Aug. 11.

★†**California**—U. S. Eng., Wright Bldg., Sacramento, housing, utilities, Inv. 126, to Standard Building Co., 1500 Judah St., San Francisco. $500,000-$1,000,000. Bids 8/4. CD 7/27—ENR 8/13. under LB.

†**Connecticut**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., temporary frame bldgs., grading, drainage, taxiways and runways, New London Co., to Carlo Bianchi & Co., Inc., 24 Union Ave., Framingham, Mass. $1,000,000-$5,000,000.

†**Florida**—U. S. Eng., Courthouse & Post-office, Jacksonville, temporary frame bldgs., Pasco Co., to J. L. Ewell, Lakeland, $100,000-$500,000.

★†**Florida**—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, buildings, to J. P. Ewell, Lakeland, under $1,000,000.

★†**Florida**—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, buildings, to J. A. Ramsey & Son, Inc., Miami, under $1,000,000.

†**Florida**—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, temporary frame bldgs., Bradford Co., to Fred Howland, Inc., Postal Bldg., Miami. Under $50,000.

†**Florida**—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, temporary frame bldgs., Levy Co., to Joseph Miller Constr. Co., Inc., Tampa. Under $50,000.

†**Florida**—U. S. Eng., U. S. Courthouse and Post Office, Jacksonville, temporary frame bldgs., Dade Co., to Brady Roofing Tiles Mfg. Co., 3620 N. W. 27 Ave., Miami. $100,000-$500,000.

†**Georgia**—U. S. Eng., 494 Spring St. N.W., Atlanta, masonry sidewalls, etc., Cobb Co., to MacDougald Constr. Co., Northside Dr. N.W., Atlanta. $1,000,000-$5,000,000.

†**Georgia**—U. S. Eng., Post Office Bldg., Savannah, temporary frame bldgs., McIntosh Co., to Daniel Lumber Co., La Grange. $100,000-$500,000.

†**Georgia**—U. S. Eng., 494 Spring St. N.W., Atlanta, turbo generator unit, Cobb Co., to General Electric Co., Red Rock Bldg., Atlanta. $50,000-$100,000.

★†**Georgia**—U. S. Eng., 494 Spring St. N.W., Atlanta, masonry, sidewalls, etc., Cobb to electric, water and sewerage systems, Bibb Co., to Stillwell Constr. Co., Macon. $1,000,000-$5,000,000.

★†**Illinois**—U. S. Eng., Clock Tower Bldg., Rock Island, temporary frame bldgs., Rock Island Co., to Priester Constr. Co., Davenport, Ia. $500,000-$1,000,000.

†**Indiana**—U. S. Eng., Federal Bldg., Louisville, Ky., temporary frame bldgs., Bartholomew Co., to Pearson Constr. Co., Benton Harbor, Mich. $100,000-$500,000.

★†**Iowa**—U. S. Eng., 1709 Jackson St., Omaha, Neb., plant, to Harry Noel, Spencer. Total $5,000,000.

†**Kansas**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., converting 50 stables into motor repair shops, to J. T. Constant, Lawrence. Under $100,000.

†**Kansas**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., temporary frame bldgs., electric, water and sewage systems, Geary Co., to Dondlinger & Son, Wichita. $100,000-$500,000.

†**Kentucky**—U. S. Eng., Federal Bldg., Louisville, Ky., temporary frame bldgs., Jefferson Co., to Thorp-Rogoff Co., 306 S. Wabash St., Chicago, Ill. $100,000-$500,000.

†**Kentucky**—U. S. Eng., U. S. Post Office & Courthouse, Cincinnati, O., concrete and steel bldgs., Madison Co., to Penker Associates, Inc., 1030 Summer St., Cincinnati, O. $100,000-$500,000.

†**Louisiana**—U. S. Eng., foot Prytania St., New Orleans, frame storehouses, Orleans Parish, to L. F. Favret, 937 Gravier St., New Orleans. $50,000-$100,000.

†**Louisiana**—U. S. Eng., U. S. Post Office and Courthouse, Vicksburg, Miss., buildings, Bossier Parish, to Werner Co., 1320 Pierce Ave., Shreveport. $100,000-$500,000.

†**Maryland**—U. S. Eng., Standard Oil Bldg., Baltimore, concrete, steel storage buildings, Allegany Co., to Baker & Coombs, Inc., Morgantown W. Va. $50,000-$100,000.

★†**Massachusetts**—U. S. Eng., 31 St. James Ave., Boston, temporary frame bldgs., Middlesex Co., to David Nassif Co., 20 Providence St., Boston. $500,000-$1,000,000.

†**Massachusetts**—U. S. Eng., 31 St. James Ave., Boston, temporary frame bldgs., Middlesex Co., to Volpe Constr. Co., Malden. $100,000-$500,000.

†**Massachusetts**—U. S. Eng., Park Sq. Bldg., Boston, temporary frame bldgs., 175-43-NEG 23, to Daniel Cunningham Constr. Co., 20 Kilby St., Boston. Under $50,000. Bids 8/8. CD 8/7.

†**Massachusetts**—U. S. Eng., Park Sq. Bldg., Boston, temporary bldg., 175-43-NEG 32, Middlesex County, to Volpe Constr. Co., 54 Eastern Ave., Malden. Est. $100,000-$500,000. Bids Aug. 10. CD 8/7—ENR 8/13.

†**Massachusetts**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., brick warehouse, to D. A. Sullivan & Sons, Inc., 78 Main St., Northampton. Bids 8/8.

★†**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, bldgs., to Jerome A. Utley, 723 E. 10 Mile Rd., Royal Oak, Detroit. Less than $1,000,000.

★**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, bldgs., to Chas R. Wermuth & Son, Inc., 1239 Sunset Dr., Fort Wayne, Ind. Less than $1,000,000.

★†**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, bldgs., to Strom Constr. Co., 452 Houseman Bldg., Grand Rapids, and Spence Bros., 203 Brewer Arc., Saginaw. Less than $1,000,000. CD 8/11—ENR 8/13.

†**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, temporary frame bldgs., Wayne Co., to M. A. Clausen, 15529 Woodrow Wilson St., Detroit. $100,000-$500,000.

†**Mississippi**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., bldg., to S & W Constr. Co. & Associates, Pocahontas Rd., and Charles Weaver Constr. Co., Inc., Tower Bldg., Jackson.

★†**Missouri**—Industrial Company, expanding plant, to Foley & Aldinger, 409 Griswold St., Detroit, Mich. Approx. $2,000,000. Federally financed. Smith-Hinchman & Grylls, 800 Marquette Bldg., Detroit, Mich., archts. Addnl. to 11/17—ENR 11/21, under CA.

†**Missouri**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., temporary frame bldgs., Phelps Co., to John Epple Constr. Co., Columbia. $100,000-$500,000.

★†**Missouri**—U. S. Eng., Courthouse & Customhouse, St. Louis, temporary frame bldgs., Sainte Genevieve Co., to McCarthy Bros. Constr. Co., 4903 Delmar St., St. Louis. $1,000,000-$5,000,000.

★†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, concrete and steel warehouses, Cheyenne Co., to I-C-U Contractors, Kansas City, Mo. $1,000,000-$5,000,000.

★†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, concrete storage bldgs., grading, rock excav. and backfill, Cheyenne Co., to Construction Co., Lincoln. $1,000,000-$5,000,000.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, concrete, steel bldgs., heating, plumbing, ventilating, air conditioning sys., Cheyenne Co., to Wentz-Natkin Companies, Lincoln. $100,000-$500,000.

★†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, concrete, steel storage bldgs., Cheyenne Co., to I-C-U Contractors, Kansas City, Mo. $1,000,000-$5,000,000.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, concrete, steel bldgs., Cheyenne Co., to I-C-U Contractors, Kansas City, Mo. $100,000-$500,000.

†**New Jersey**—U. S. Eng., 120 Wall St., New York, N. Y., temporary frame bldgs., incl. storehouse, etc., to Hansen-Jensen, Inc., 427 N. Broad St., Elizabeth. $50,000-$100,000.

†**New Jersey**—U. S. Eng., 120 Wall St., New York, N. Y., temporary frame bldgs., Essex Co., to Arthur Veneri Co., Inc., 259 N. Broad St., Elizabeth. $100,000-$500,000.

†**New Mexico**—U. S. Eng., Albuquerque, buildings, to E. R. Morgan & Co., 2300 Huntington Dr., San Marino, Calif. $100,000-$500,000.

†**New York**—U. S. Eng., 120 Wall St., New York, temporary frame bldgs., Nassau Co., to Wortman & Sons, Inc., 109 E. 29 St., New York. $100,000-$500,000.

†**New York**—U. S. Eng., 960 Ellicott Square Bldg., Buffalo, temporary frame bldgs., Erie Co., to N. Osborne Siegfried, t. a. Siegfried Constr. Co., 6 N. Pearl St., Buffalo. $100,000-$500,000.

†**New York**—U. S. Eng., 120 Wall St., New York, temporary frame bldgs., Orange Co., to Harry Hershon Co. Inc., 1860 Bway., New York. $100,000-$500,000.

†**New York**—U. S. Eng., 120 Wall St., New York, temporary frame bldgs., Albany Co., to Poirier & McLane Corp., 33 W. 42 St., New York. $100,000-$500,000.

★†**New York**—U. S. Eng., Chimes Bldg., Syracuse, concrete and steel bldgs., Albany Co., to J. P. Sewell, 372 Hudson Ave., Albany. $1,000,000-$5,000,000.

†**New York**—U. S. Eng., 120 Wall St., New York, temporary frame bldgs., roads and electric, water and sewerage systems, Orange Co., to Iglehart, Caldwell & Scott, Inc., 90 Broad St., New York. $100,000-$500,000.

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, temporary frame bldgs., New York Co., to Byrne Constr. Co., Inc., 411 Roberts Ave., Syracuse. $100,000-$500,000.

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, temporary frame bldg., New York Co., to Clyde M. Ludberg Co., 326-1 St., Spokane, Wash. $100,000-$500,000.

†**North Carolina**—U. S. Eng., 308 Customhouse, Wilmington, temporary frame bldgs., New Hanover Co., to T. A. Loving & Co., Goldsboro. $100,000-$500,000.

†**North Carolina**—U. S. Eng., 308 Customhouse, Wilmington, temporary frame bldgs., etc., Wayne Co. to Grannis, Higgins, Thompson & McDevitt, Charlotte. $100,000-$500,000.

★†**Ohio**—U. S. Eng., 700 Union Guardian Bldg., Detroit, boiler house, Allen Co., to Albert M. Higley Co., 2036 E. 22 St., Cleveland, less than $1,000,000.

†**Ohio**—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., brick and steel boilerhouse, Allen Co., to Albert M. Higley Co., 2036 E. 22 St., Cleveland. $50,000-$100,000.

†**Ohio**—U. S. Eng., Wright Field, temporary frame bldgs., Greene County, to Frank Burke & Son, 358 Dearborn St., Chicago, Ill. $100,000-$500,000.

†**Ohio**—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., temporary frame bldgs., Cuyahoga Co., to Schirmer Peterson Co., 6830 Beaver St., Cleveland. $100,000-$500,000.

†**Ohio**—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., temporary frame bldgs., Allen Co., to Knowlton Constr. Co., Bowling Green. $100,000-$500,000.

†**Oklahoma**—U. S. Eng., 231 W. Main St., Denison, Tex., building, 257-42-211, to Associated Builders, Inc., Oklahoma City. $100,000-$500,000.

★†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, concrete and steel bldgs. and temporary frame bldgs., Mayes Co. to Jack E. Stegall Constr. Co., Tulsa Loan Bldg., Tulsa. $500,000-$1,000,000.

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, temporary frame bldgs., electric, water and sewerage systems, Oklahoma Co., to L. Sanders, Trades Natl. Bank Bldg., Oklahoma City. $100,000-$500,000.

†**Oregon**—U. S. Eng., Pittock Blk., Portland, temporary frame bldgs., Jackson Co., to M. O. Bessonette, Medford. $100,000-$500,000.

†**Oregon**—U. S. Eng., Pittock Blk., Portland, temporary frame bldgs., to MacDonald Bldg. Co., 1517 S. Tacoma Way, Tacoma, Wash. $100,000-$500,000.

†**Pennsylvania**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave., N.W., Wash., D. C., extension to cafeteria, NOY 5558, to Frank V. Warren, Inc., 15 and Locust Sts., Phila. $100,000-$500,000.

★†**Pennsylvania**—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., plant, A-E-M, to Fraser Brace & Co., 10 E. 49 St., New York, N. Y.; subcontracts to H. Platt Co., 922 Raspberry St., Erie, Navarro Corp., 6219 Broad St., Pittsburgh, and Landau Bros. Bldg. Co., 125 1 Ave., Pittsburgh. $33,000,000.

★†**Pennsylvania**—U. S. Eng., New Federal Bldg., Pittsburgh, plant, to W. E. Wood Co., 4649 Humboldt St., Detroit, Mich. Less than $3,000,000. Industrial Company will operate.

★†**Pennsylvania**—U. S. Eng., Standard Oil Bldg., Baltimore, Md., concrete and steel storage bldgs., Franklin Co., to Fred J. Brotherton, Inc., Atlantic and Newman Sts., Hackensack, N. J. $500,000-$1,000,000.

†**Rhode Island**—U. S. Eng., 819 Industrial Trust Bldg., Providence, storage, to Narragansett Improvement Co., 104 Public St., Providence. Bids 8/5.

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, temporary frame bldgs., Richland Co., to W. H. Hand & Son, Belmont, N. C. $100,000-$500,000.

†**South Carolina**—U. S. Eng., 1709 Jackson St., Omaha, Neb., temporary frame bldgs., Davison Co., to Henry Carlson Co., Sioux Falls, S. D. $100,000-$500,000.

★†**South Dakota**—U. S. Eng., Administration Bldg., Fort Peck, Mont., concrete and steel bldgs., Fall River Co. to General Contractors Partnership, Minneapolis, Minn., $1,000,000-$5,000,000.

★†**South Dakota**—U. S. Eng., Administration Bldg., Fort Peck, Mont., 11 bldgs. to R. S. Billingsley Co., 2517 Nicollet Ave., Minneapolis, Minn., Walter D. Giertsen Co., 144 Glenwood Ave., Minneapolis, Minn., and J. Kratochvil, New Prague, Minn. $1,000,000-$5,000,000.

†**Tennessee**—U. S. Eng., 306 U. S. Courthouse, Nashville, concrete and steel bldgs., Hamilton Co., to Hercules Powder Co., Delaware Trust Bldg., Wilmington, Del. $100,000-$500,000.

†**Texas**—Public Housing Auth., NHA, Electric Bldg., Fort Worth, frame dwellings, to Brown-Lane Constr. Co., Greenwood and Industrial Blvd., Houston. $490,000.

†**Texas**—U. S. Eng., Fort Sam Houston, storage bldg., to J. H. Raybourn, Kentucky Ave., San Antonio. $50,000-$100,000.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, temporary frame bldgs., Cameron Co., to McGough Bros., Bankers Mortgage Bldg., Houston. $100,000-$500,000.

★†**Texas**—Industrial Company, plant, to Chemical Constr. Corp., 30 Rockefeller Plaza, New York, N. Y. Est. $500,000. Federally financed.

★†**Texas**—Industrial Company, plant to Arthur G. McKee & Co., 2300 Chester St., Cleveland, O. $750,000. Federally financed.

†**Texas**—U. S. Eng., San Antonio, temporary frame bldgs., electrical distr. sys. and water and sewerage systems, Brown Co., to Investment Service Corp., 313 Great Natl. Life Bldg., Dallas. $100,000-$500,000.

†**Texas**—U. S. Eng., San Antonio, temporary frame bldgs., Bexar Co., to Ideal Home Builders, San Antonio. $100,000-$500,000.

★†**Virginia**—U. S. Eng., 415 P. O. & Courthouse Bldg., Norfolk, temporary frame bldgs., Norfolk Co., to E. E. Weddle & Co., Bd. Trade Bldg., Norfolk. $500,000-$1,000,000.

†**Virginia**—U. S. Eng., 415 P. O. & Courthouse Bldg., Norfolk, temporary frame bldgs., Warwick Co., to Dewey G. Weddle & Co., Natl. Bank Commerce Bldg., Norfolk. $100,000-$500,000.

PUBLIC BLDGS. Contracts Awarded, Cont'd.)

†**Virginia**—U. S. Eng., 415 P. O. and Court House Bldg., Norfolk, temporary frame bldgs., Princess Anne Co., to E. E. Weddle & Co., Bd. Trade Bldg., Norfolk. **$1000,000-$500,000.**

†**Virginia**—U. S. Eng., 415 P. O. and Court House Bldg., Norfolk, temporary frame bldgs., electric, water and sewerage systems, Warwick Co., to Southeastern Constr. Co. and Goode Constr. Corp., Sandston, Richmond. **$100,000-$500,000.**

†**Washington**—U. S. Eng., Pittock Block, Portland, Ore., temporary frame bldgs., Clark Co., to C. A. Gilmer, Spaulding Bldg., Portland, Ore. **$50,000-$100,000.**

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, temporary frame bldgs., Spokane Co., to Hawkins & Armstrong, P. O. Box 4, Spokane. **$100,000-$500,000.**

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, bldgs., to Gaasland Constr. Co., 1161 Ellis St., Bellingham. **$100,000-$500,000.**

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, temporary frame bldgs., Spokane Co., to Anderson Bldg. Co., 2008 N.W. Bv., Spokane. **$100,000-$500,000.**

★†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, concrete and steel bldgs., Sauk Co. to Walsh & Steenberg, W 1757-1st Natl. Bank Bldg., St. Paul, Minn., **$500,000-$1,000,000.**

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, foundations and excav. for 128 bldgs., to Otto B. Ashach & Sons, Hamline Ave. and County Rd. C., St. Paul, Minn.

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, 53 bldgs., to Gilbert Hamm Constr. Co., 1423 Highland Parkway, St. Paul, Minn.

★**N. S., Dartmouth**—Dpt. Natl. Defense, Ottawa, Ont., depot, to E.G.M. Cape & Co., Ltd., 620 Cathcart St., Montreal, Que. Est. **$2,000,000.**

COMMERCIAL BUILDINGS

PROPOSED WORK

Md., Bethesda (br. Wash., D. C.)—Bethesda Chevy Chase Hospital, Bethesda, plans by Faulkner & Ringsbury, 917 15 St. N.W., Wash., D. C., 1 story, brick hospital. Awaiting FWA approval.

Md., Bethesda (br. Wash., D. C.)—Bradley Blvd. Constr. Co., c/o Schreier & Patterson, archts., 917 15 St. N.W., Wash., D. C., five 2 story, brick apartment bldgs., Bradley Blvd. between Wisconsin Ave. and B. & O. R. R. Owner builds.

Md., Hyattsville—First Baptist Church, c/o P. H. Kea, archt., Hyattsville, 1 and 3 story, brick, limestone church educational bldg.

★**N. J., Clifton**—Allwood Park Housing, 405 Lexington Ave., New York, N. Y., plans by G. W. Iser, 109 E. 29 St., New York, N. Y., 300 family 2½ story, bsmnt., garden type, frame, brick apartments. $500,000.

N. J., Dover—Dover Holding Corp., c/o G. W. Iser, 109 E. 29 St., New York, N. Y., plans by Gustave W. Iser, 109 E. 29 St., New York, N. Y., one hundred twenty-five, 2 story, bsmnt., 25x5 ft., brick veneer homes.

O., Cleveland—Meyer Eisendorf, 3637 E. 151 St., 50 frame houses. $300,000.

Pa., Library—Hodge & Webeck, H. Webeck, in charge, King School Rd., R. D. 1, Library, seventy-six 1 and 2 story, bsmnt., brick veneer, frame residences, Bethel Twp., Allegheny Co. $380,000.

Pa., McKees Rocks—Ohio Valley Hospital, J. M. Hall, chn., 710 Chartiers Ave., hospital, Kennedy Twp., Allegheny Co.

Tex., San Antonio—Hilltop Terraces, Inc., Euston St., plans by H. Steinbomer, 120 King Wm. St., 23 apartment bldgs., 2 story each. $260,000.

Wash., Seattle—S. H. Eriksson, c/o Stuart & Durham, archts., 4 and Cherry Bldg., ten 4 family housing units, 3 Ave. W. and Roy St. $150,000.

CONTRACTS AWARDED

Ark., Pine Bluff—Aviation Realty Co., W. E. Johnson, vice pres. and genl. mgr., P. O. Box 35, 104 dwellings. Owner builds. **$322,000.**

Ark., Pine Bluff—Pine Bluff Houses, Inc., Wallace E. Johnson, vice pres. and genl. mgr., 71 houses. Owner builds. **$300,000.**

Calif., Richmond—R. D. Nichols, 7614 Foothill Blvd., Oakland, 14 (ultimately 44) residences, to H. Schuster, 3275 Morcum St., Oakland. Total est. **$176,000.**

Calif., Richmond—Sharboro & Jorgensen, 207 Walnut St., San Francisco, 70 residences. Owner builds. **$210,000.** J. H. Ahnden, 207 Walnut St., San Francisco, archt.

Calif., San Mateo—R. G. Marshall Co., 1444 Burlingame Ave., Burlingame, fifty 1 family and duplex residences, Laurel Park Tract, to Sunshine Building Co., 540 El Caminal Real, San Carlos, H. Voelker, 805 Winchester Ave., Burlingame and A. R. Schmidt, 1136 Webster St., San Francisco. Est. **$175,000.**

Ind., Fort Wayne—General Electric Co., 1635 Bway., general contract 2 story, brick, concrete office bldg., to Indiana Eng. & Constr. Co., 303 Old 1st Natl. Bank Bldg. Est. $150,000. Polhmeyer & Polhmeyer, 262 Central Bldg., archts. Bevington-Williams, Inc., 730 Ind. Pythian Bldg., Indianapolis, mech. engrs. Awarded 8/7.

Me., South Portland (br Portland)—Cumberland Corp., Cape Elizabeth, frame housing project, to Chester A. Patten, 68 Essex St., Melrose. Est. **$475,000.** Hutchins & French, 11 Beacon St., Boston, Mass., archts.

Md., Bethesda (br. Wash., D. C.)—Constantine Eisinger, Bethesda, two 2 story (22 units each) brick, stone apartment bldgs., to Morrison Bros., Bethesda.

Md., Takoma Park (Sta. Wash., D. C.)—Washington Missionary College, Takoma Park, altering, 1 story, brick, science bldg. exten., to H. H. Hubbard, Takoma Park. R. Sensenan, Takoma Park, archt

Mass., Springfield—Berkshire Homes, Inc., c/o J. Gerla, Sheraton Hotel, 70 Chestnut St., defense homes, 62 units, Berkshire Ave. and Penaquid St. Owner builds. **$250,000.** O. E. Hermes, 12 Harwich Rd., West Springfield, archt.

Mich., Lansing—St. Lawrence Hospital, 1210 W. Saginaw St., 4 story, bsmnt., 43x85 ft. hospital addn., to Reniger Constr. Co., 127 N. Cedar St. **$150,000.** Herrick & Simpson, 1005 Bauch Bldg., archts.

Mo., St. Louis County (St. Louis, P. O.)—Milton Constr. & Supply Co., 7600 St. Charles Rd., U. S. 40, 54 (ultimately 100) 1½ story, brick, bungalows, St. Charles Rd. Owner builds. Est. **$217,500.**

★**Mo., St. Louis County (St. Louis, P. O.)**—Risch Building & Real Estate Co., 9100 Gravois Rd., St. Louis, 31 (ultimately 280) brick bungalows, Mackenzie Subdivision on Mackenzie Rd. Owner builds. Total est. **$900,000.** CD 3/12—ENR 3/19.

N. J., Passaic—Brookdale Homes, Inc., 42 Oakridge Rd., Bloomfield, eighty-seven 2 story, bsmnt., frame homes. Separate contracts. **$435,000.** G. G. Ripa, 230 Henry St., Orange, archt.

O., Canton—Lawrence Bros. Co., 1027 Belleflower Ave. S.W., 22 homes, West Manor Allot, own forces. **$192,000.**

O., Wadsworth—Ohio Injector Co., E. A. Young, vice pres., Wadsworth, 3 story, bsmnt., 80x84 ft. office bldg., to Geo. A. Rutherford Co., 2725 Prospect Ave. Est. **$150,000.** R. G. Firestone, 175 W. Bowers St., Akron, archt M. R. Bixler, c/o owner, engr.

South Carolina—Highland Park Corp., Charleston, 25 brick veneer and 25 frame residences, Highland Park. Owner builds. **$200,000.**

Va., Richmond—Kent Road Corp., Richmond, design and construction eleven 8 family apartment houses, Hamilton St. between Patterson and Monument Aves., to Muhleman & Kayhoe, Inc., 505 E. Franklin St., **$247,500.**

INDUSTRIAL BUILDINGS

PROPOSED WORK

★**Ala., Mobile**—MILL—J. C. Sanders Cotton Mill Co., Inc., Pritchard, rebuilding mill. $500,000.

Calif., Patterson — PLANT — General Dry Battery, Inc., 13000 Athens St., Cleveland, O. (E. Lavergne, local representative) magnetic separation plant. $100,000.

Calif., Sausalito—SALVAGE—W. A. Bechtel Co., 155 Sansome St., San Francisco, salvage bldg. Over $40,000.

Connecticut—PLANT—Vought-Sikorsky Division, United Aircraft Corp., 550 Main St., Stratford, 1 story, 90x200 ft. brick, glass tool engineering plant. $130,000.

Conn., Bridgeport—FACTORY—Owner, c/o C. F. Davis, archt., 83 Fairfield Ave., completing plans 2 story bsmnt., 50x100 ft., brick factory. $45,000.

La., New Orleans—WAREHOUSE—Moise H. Goldstein & Associates, archts, Amer. Bank Bldg., soon lets contract, 2 story, 44x104 ft. masonry construction warehouse, for River Terminal Corp., Cotton Exch. Bldg.

Neb., Cozad—MILL—Denver Alfalfa Mills & Products Co., La Mar, Colo., mill. $50,000.

Ore., Cottage Grove—MILL—J. H. Chambers & Sons Lumber Co., Cottage Grove, rebuilding mill. **$40,000.**

Tex., Houston — WAREHOUSE — Anderson Clayton Co., Cotton Exchange Bldg., bids soon. concrete, structural steel warehouse units, concrete fdn., septic tank, etc. $75,000.

Wis., Mellen — FACTORY — Penokee Veneer Co., Mellen, rebuilding factory.

Wis., Ripon — FACTORY — Ripon Foods, Ripon, plans by R. A. Sutherland, 259 E. Wells St., Milwaukee, 2 story, 65x175 ft., steel, brick factory addn., concrete fdn.

BIDS ASKED

Bids Asked August 25

Conn., Bridgeport — TRUCK GARAGE — Fletcher-Thompson, Inc., engr., 1336 Fairfield Ave., 1 story, 25x250 ft., 45x70 ft. and 45x53 ft., brick, concrete truck garage, Cherry St., for McLean Trucking Co., Inc., 350 Cherry St. $45,000. Extended date. CD 8/11—ENR 8/13.

Bids Asked

Conn., Stratford—PLANT—[illegible] Div. of United Aircraft C[illegible] (from selected bidders) [illegible] concrete maintenance unit.

Mass., Ayer—WAREHOU[illegible] sivan, Inc., Groton St., (fr[illegible] 1 story, 80x175 ft., cold [illegible] Groton St., $40,000.

Pa., Callery—FACTORY—archts., 517 Martin Bldg., [illegible] contract 2 story, 40x180 ft. to office, for Mine Safety A[illegible] Braddock Ave., Pittsburgh.

CONTRACTS AWARDED

Calif., Monterey—WAREH[illegible]SE and CANNERY—Oxnard Canners, In[illegible] 2 story, 60x125 ft., frame [illegible] story frame cannery, Wa[illegible] Owner builds. **$70,000.** R. E. [illegible] Carmel, archt. and engr. CD [illegible]8—ENR 6/18

Calif., Sacramento— SHED[illegible] cific R.R. Co., T. L. Phillip[illegible] Mission St., San Francisco, [illegible] 4 and R Sts., to Holdener C[illegible] St. Bids 8/3. CD 7/28—ENR [illegible]

Ill., Chicago — MACHINE SHOP — Finkl & Sons, 2100 N. Southport Ave., remodeling machine shop and boiler room addn., to E. L. Hallbauer Constr. Co., 452 W. Belden Ave. Est. **$45,000.** Morton L. Pereira & Associates, 100 W. Monroe St., archts.

Mass., Chicopee Falls—PLANT—Fisk Tire Div. U. S. Rubber Co., 154 Grove St., temporary frame unit factory Grove St. to Ley Constr. Co., 1215 Main St., Springfield

N. J., Bayonne—LABORATORY—General Cable Co., 243 W. 1 St., alterations, addns. to laboratory, 3 story, bsmnt., brick, refrig.-con. to H. K. Ferguson Co., 205 W. 43 St., New York, N. Y., **$150,000.**

N. J., Trenton—MANUFACTURING—Turbo Eng. Co., 853 Nottingham Way, 1 story, 77x800 ft. manufacturing plant, to John W. Ferguson & Co., 152 Market St., Paterson. **$300,000.** CD 7/27—ENR 7/30.

★**O., Bellefonatine**—ENGINE HOUSE—New York Central R. R., J. W. Pfau, ch. engr., 466 Lexington Ave., New York, N. Y., even engine house walls, modernizing locomotive shop, to Walsh Constr. Co., 114½ W. 3 St., Davenport, Ia., **$500,000.** Awarded 8/1.

O., Cleveland—FACTORY—Baker-Rau-Lang Co., E. M. Bartlett, pres., 2500 Monroe St., 1 story, 65x122 ft. factory addn., to H. G. Slatmyer & Son Constr. Co., 203 Lakeside Ave. Est. $40,000. F. Haushka, Ninth-Chester Bldg., engr.

Tenn., Union City—FACTORY—Reynolds Packing Co., Union City, factory addn., to G. Harrison, Union City, **$40,000.** Est. $45,000.

Tex., Houston—PLANT—A. O. Smith Corp., 817 Niels Esperson Bldg., plant buildings, to T. D. Howe Constr. Co., 321 White Oak Dr. **$260,000.**

Wis., Racine—FACTORY—B. D. Eisendrath Tanning Co., 702 Racine St., 1 story, 66x182 ft. factory addn., to Nelson & Co., Inc., 1550 Yont St. E. A. Klinger, 612-14 St., archt.

Alta., Calgary (East) — PUMP and COMPRESSOR—Imperial Oil Ltd., Calgary, 1 story, 176x240 ft. brick pump and compressor bldg., day labor. **$50,000.** CD 5/28—ENR 6/4.

Alta., Grande Prairie—POWER PLANT—Canadian Utilities Ltd., 215 6 Ave., Calgary, power plant exten., day labor. **$50,000.** CD 8/6—ENR **8/13.**

Man., Flin Flon—ORE BIN, etc.—Emergency Metals, Ltd., Royal Bank Bldg., Winnipeg, ore bin, mill bldg., crusher, change house, etc., day labor. Est. **$75,000.**

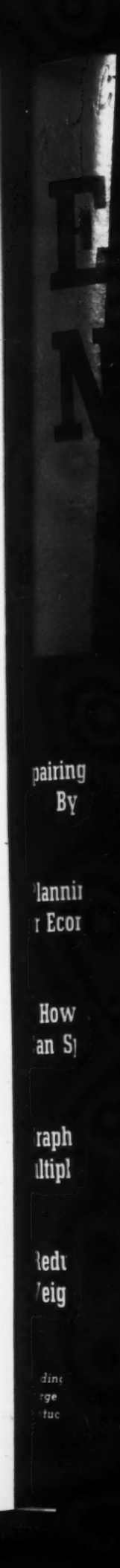
Man., Winnipeg—GARAGE—Winnipeg Electric Ry. Co., 1 story, brick garage, Assiniboine and Fort Garry Sts., to Carter-Halls-Aldinger Co., Ltd., Royal Bank Bldg., **$132,000.**

Ont., Georgetown — FACTORY — Smith & Stone, Georgetown, 1 story, 160x175 ft. brick hollow tile factory addn., Owner builds. **$170,000.**

Ont., Kitchener—PLANT—J. M. Schneider Ltd., 321 E. Courtland St., plant addn., to Ball Bros. Ltd., 49 E. King St. **$50,000.** J. C. Klachn, 49 E. King St., archt.

★**Ont., Niagara Falls** — PLANT — Canadian Carborundum Co., Stanley St., brick, concrete, steel furnace bldg., 3 transformer bldgs., storage and scrap crushing bldgs, pig breaking extens., 9 furnaces own forces. **$500,000.**

★**Ont., Sarnia**—PLANT—Polymer Corp., Ltd., 320 Bay St., Toronto, steam electric power plant, pumping station, dockage, to Carter-Halls-Aldinger Co., Ltd., 419 Cherry St., Toronto, about **$1,500,000.** H. G. Acres & Co., Ltd., 1870 Ferry St., Niagara Falls, engrs. CD 7/3—ENR 7/16.

Ont., Toronto—PLATE SHOP—John Inglis Co., Ltd., 14-24 Strachan Ave., 1 story, 100x400 ft. reinc-on plate shop, Strachan Ave., to A. W. Robertson, Ltd., 57 Bloor St., W., about $350,000. Allward & Gouinlock, 57 Bloor St., archts. CD 5/15.

Ont., Windsor—PLANT—Colonial Tool Co., Ltd., Sandwich St. E., machine cutting tool plant, to Dinsmore-McIntire Co., Security Bldg., **$135,000.** Dpt. Munitions & Supply, Ottawa, Ont., engrs. Bids 7/27. CD 7/17—ENR 7/23.